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Technical Note N-482

PIONEER POLAR STRUCTURES

SPECIFICATIONS FOR JAMESWAY SHELTER ACCESSORIES

15 April 1963

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PORT HUNTERS, CALIFORNIA

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**PIONEER POLAR STRUCTURES
SPECIFICATIONS FOR JAMESWAY SHELTER ACCESSORIES**

**Y-F015-11-146
Type B**

Compiled by

G. E. Sherwood

ABSTRACT

Accessories were developed for improving the Jamesway in order to provide a suitable, lightweight, quick-erecting shelter for use as quarters, messing, galley, utilities, administration and other such applications in pioneer polar camps. These accessories include: A heavy duty floor and foundation system; a wall extension kit; special entry kits; an improved electrical distribution system; and special utility accessories. This technical note contains the specifications for the Jamesway shelter accessories presented in the Naval Civil Engineering Laboratory Technical Report TR-241, "Pioneer Polar Structures - Accessories for the Jamesway Shelter."

INTRODUCTION

Experience has shown that a warm, comfortable shelter for use as quarters, messing, galley, utilities, administration and medical care is required for efficient and effective performance of a work force in a polar environment. Shelters for use when pioneering these regions must be lightweight and quick-erecting. Based on fulfillment of the above requirements and several years of successful use in Arctic and Antarctic operations, the Army Quartermaster Corps Tent, frame-type, insulated, commonly known as the Jamesway, was selected as the basic building to be used for development of a suitable shelter for pioneer polar camps.¹ Although the Jamesway basically fulfills the requirements of shelters for pioneer polar operations, continued usage of the structure has revealed certain limitations. This technical note contains the specifications* for² accessories developed for the Jamesway to overcome these limitations.

DESCRIPTION OF THE ACCESSORIES

The accessories developed for the Jamesway are detailed in the drawings contained in the Appendix. Accessories developed are:

1. A heavy duty floor which supports large concentrated loads without excessive deflection. Y&D Drawing No. 936916.
2. A special foundation system which provides structural steel support under the center of a building where cavitation is most critical. Y&D Drawing No. 936916.
3. A wall extension kit which raises the roof arches two feet above the standard position providing adequate headroom along the edges of the building. Y&D Drawing Nos. 936903 through 936905.
4. A side entry kit which is an entry vestibule for the side of a building. Y&D Drawing Nos. 936907 through 936912.
5. A standard vestibule end entry kit which permits direct entry through a standard vestibule. Y&D Drawing No. 936913.
6. An improved electrical distribution system which provides adequate lighting and convenience outlets for general use and flexibility for special applications. Y&D Drawing No. 936906.

* Developed by King, Benioff and Associates, Consulting Engineers, Sherman Oaks, California under Contract NBy-32208.

7. Water storage tanks which permit elevated water storage. Y&D Drawing No. 936915.

8. A snow melter which can be supplied with snow and used inside a building. Y&D Drawing No. 936917.

9. A dry head kit which permits placement of a toilet inside a building. Y&D Drawing No. 936914.

10. A special roof vent which can be placed anywhere in a building. Y&D Drawing No. 936902.

SPECIFICATIONS FOR THE ACCESSORIES

The specifications in the following paragraphs apply as appropriate to the Jamesway shelter accessories.

1. Scope. The work shall include the furnishing of all material and equipment, and performing all labor for the complete fabrication of the items indicated on the drawings and described and specified herein. The contractor's proposal shall be based on the drawings and specifications herewith and no deviations shall be accepted except as approved in writing by the Contracting Officer.

2. Materials

A. Wood

(1) Lumber. (Referred to on drawings as "Wood"). All lumber shall thoroughly and uniformly be dried to a moisture content not more than 12 percent at time of fabrication determined in accordance with Specification MIL-W-6110, and shall be free from decay, case bordering, shakes, checks, or any other defect which may affect the strength, wear or serviceability of the member. Not more than two small round knots 1/4 to 1/2 inch in diameter or one 3/4 inch knot will be permitted per square foot. Members shall be finished on all sides to drawing dimensions. Any of the following species of wood may be used, unless otherwise specified:

Fir, Douglas, Coast Region
Hemlock, Western
Pine, Norway or Ponderosa
Pine, (White) Northern or Western
Spruce (Eastern, Sitka)
Pine, Southern (long leaf, slash, short leaf and loblolly)

(2) Plywood. Plywood shall conform to Specification NN-P-530a for all plywood, and shall be grade marked to indicate conformance with the following requirements.

(a) Douglas Fir, Exterior Type, Grade AC, sanded 2 sides, as per Commercial Standard CS-45 of latest date.

B. Steel

(1) Sheet or Strip. Conform to Specification QQ-S-640 FS-1020 unless noted otherwise.

(2) Bar stock. Conform to Specification QQ-S-633a.

(3) Structural. Conform to "Standard Specifications for Structural Steel for Bridges and Buildings," Serial Designation A-7 of the American Society for Testing Materials.

C. Aluminum

(1) For structural purposes. Alloy 6061 or 6062, T-6 Temper, conform to Specification QQ-A-270a. Alloy and use as indicated on the drawings.

(2) For tanks. Alloy 5052, zero Temper, conform to Specification QQ-A-318c. Alloy and use as indicated on the drawings.

(3) Welding Wire. 5154 or 5356 for Alloys 6061 and 6062; 5356 for Alloy 5052.

(4) For vent roof flashing. Conform to Specification MIL-A-52174, .025 inches thick.

D. Fastenings

(1) Nails. The nails shall be steel, cement coated, either standard (coolers) or countersunk head (sinters) and size as indicated on the drawings, and shall conform to Specification FF-N-105.

(2) Screws

(a) Wood. Wood screws shall be steel, of the size indicated on the drawings and of style 2c (Flat (countersink) head with cross recess drive) and shall conform to Specification FF-S-111b. Wood screws shall be used only where length requirements are in excess of two (2) inches.

(b) Screws, threaded full length. All screws screwing wood to wood or other materials to wood and where the length requirement is not in excess of two (2) inches shall be a type of screw that is threaded full length. These screws shall be cadmium plated with cross recess drive and head type as indicated on the drawings. Type A, Parker Kalon, cadmium plated screws with Phillips slot conforms to these requirements.

(3) Fasteners, Corrugated. Corrugated fasteners shall be standard commercial of size indicated on the drawings.

(4) Bolts, nuts, washers

(a) Bolts, carriage, square neck, and nuts. Conform to Type C-2 Table X, of Specification FF-B-571a, and nuts Type A1 and Table XII.

(b) Bolts, and nuts, hexagonal. Conform to Specification FF-B-571a, Type B1 and Table V and nuts Type A1 and Table XII.

(c) Nuts, wing. The wing nuts shall be standard commercial, of the type and size as indicated on the drawings.

(d) Washers. The washers shall be standard commercial cut steel of the type and size indicated on the drawings.

(e) Finishes. All bolts, nuts, and washers shall be finished with a zinc coating conforming to type II or III, class 2 of Specification QQ-Z-325a or cadmium plating type II or III, class 2 of Specification QQ-P-416a.

(5) Rivets. Rivets for attaching metal to wood shall be standard commercial, of type and size as indicated on the drawings and finished the same as specified for bolts in Section (D) (4) (e).

(6) Adhesive A - wood to wood. The adhesive used for adhering wood to wood (other than the manufacture of plywood) shall conform to Type I, Grade A Class 1 of Specification MIL-A-397B.

E. Insulation

(1) Blanket. The insulation material shall be composed of glass fibers firmly bonded with a thermo-setting plastic resin into a mat structure of thickness as indicated on the drawings, (plus 1/2 inch, minus 0), with a density of 1# per cubic foot plus or minus 10 percent. The blanket shall be faced on each face with bright aluminum foil, 2 mils thick, and applied with a fire retardant adhesive. The thermal

conductivity shall not exceed 0.25 B.T.U. per hour, per square foot, per degree Fahrenheit taken at a mean temperature of 70 F; when tested in accordance with the ASTM Specification D 1518-57T.

(2) Felt. Gaskets indicated as felt shall be composed of a wool felt, specially impregnated with an anti-corrosion and anti-electrolysis compound. It shall have a tacky, pressure sensitive adhesive on one side as an application aid. Size shall be as indicated on the drawings.

F. Straps

(1) Webbing, cotton. The webbing for straps shall conform to Specification MIL-W-530B and shall be Type III, Class 4 of width indicated on the drawings. Webbing shall be dyed to olive drab shade No. 7.

(2) Clips, end. The end clips on webbing straps shall be brass, black chemical finish conforming to type I, (ball type) of Specification JAN-C-496.

(3) Buckles, slide, with hook. The buckles shall be made of steel, hot rolled sheet or strip, condition optional as indicated on the drawings. The buckle shall be heat treated to a hardness of RC-16-22 and shall be free from cracks, scale, and other injurious defects. Case hardening will not be permitted. The buckles shall be given a finish consisting of a phosphate treated zinc-plate, conforming to Class 3, Type III of Specification QQ-Z-325, followed by bake enameling. The enamel shall conform to Type II, Specification JAN-E-480, in a black color. The coatings shall level out to a uniform dry film thickness of 0.25 mils minimum, without objectionable orange peel, wrinkles, drops, streaks, or areas of thin or no film.

G. Coating

(1) Galvanizing. Conform to Specification QQ-Z-325a, Type II, Class I zinc coating.

(2) Cadmium Plating. Conform to Specification QQ-P-416a, Class I, Type II.

H. Paint

(1) Primer. The primer shall conform to Specification TT-P-636b.

(2) Enamel. The enamel shall conform to Specification TT-E-529a, Class A. The color shall be No. 24087, Table VI of Standard FED-STD-595.

J. Hardware

(1) Hinges. All hinges shall conform to Specification FF-H-116c of the following types and sizes as indicated on the drawings.

Doors - type 2171H
Tie down assembly bar - Strps hinge, type 2203
Dry Head Lid - Tee hinges, type 2209
Dry Head Access Door - Type 2203, 4" strap
Snow Melter Chute - Type 2203, 4" strap

(2) Latch and Keeper. Latch and keeper for doors shall be a type easily operated from either inside or outside of the door. Latch and keeper shall be substantially the type indicated on the drawings, easily operated by a person wearing polar type mittens, but any acceptable latch that meets the necessary requirements, may be used upon the approval of the contracting officer. The Vonnegut No. 25 latch, as manufactured by Vonnegut Hardware Company, Indianapolis, Indiana, meets the requirements of this specification.

(3) Barrel bolt. Conform to Specification FF-H-111a, Type F1012C, 4 inches long.

(4) Sash fasteners. Conform to Specification FF-H-111a, Type F1142.

(5) Suitcase fasteners. Standard commercial as detailed, cadmium or zinc plated.

(6) Link lock. Medium duty, spring locking device. Load carrying capacity 1,000 pounds tension, operated by cam action with large wing-nut handle. (No. 2 Spring-Loaded Link-Lock as manufactured by Simmons Fastener Corporation, Albany, New York, conforms to this specification.)

(7) Chain bolt. Conform to Specification FF-H-111a, Type F 1023AC-6.

K. Toilet Seat

(1) Standard commercial, regular, solid wood core with plastic white finish, without cover.

L. Cloth

(1) For Vent Roof Flashing. A closely woven glass fabric coated on one side with chloroprene containing fire retardant. Material shall be resistant to acids, alkalies, gasoline and grease and will withstand a constant temperature of 250 F. (Ventglas, LA, manufactured by Ventfabrics, Inc., 640 North Kedzie Avenue, Chicago 12, Illinois, conforms to this specification.)

M. Plumbing Materials

(1) Pipe fittings - for steel pipe. Conform to Specification WW-P-521d.

N. Electrical Materials

(1) Materials listed below shall conform to Specifications as noted.

<u>Materials</u>	<u>Specification</u>
(a) Conduit outlets	W-C-586a
(b) Type VI, Design 27, Form 2	
(c) Wire connectors	W-S-610
Types I, Class B Style 3 or 4, Type II, Class A	
(d) Fittings, cable and conduit	W-F-406a
Type I Class 1, Style A; Type I, Class 3, Style A; Type V, Class 1, Style A.	
(e) Outlet Boxes	W-J-800a
Type I Size A Style 1; Type I, Size C, Style 8;	

Materials

Specification

Type II, Size E,
Style 13;
Type II, Size G,
Style 18;
Type IV Size K
Style 29;
Type VIII, Size S,
Style 43;
Type VIII, Size S
Style 44;
Type VIII, Size U,
Style 52, 54, 56, 57, 58;
Type VIII, Size S,
Style 49

(f) Panel Boards

WW-P-131a(2)

Class A-1, A-2, and A-4
as indicated on drawings
and conform to Table III.

(g) Receptacles and Plugs

W-C-596

Style, Series D except
with pressure type
terminals.

**(h) Switches,
(surface mounted)**

W-S-865c

Type NDD, Design 4, Box 1

(i) Switches, toggle

W-S-896a

Table III, Style 62

(j) Conduit, Steel, flexible

WW-C-566a

Sizes as indicated

(k) Conduit, steel, rigid

WW-C-581c

Sizes as indicated

Materials

Specification

(1) Nipples

WW-C-351a

Type 1, sizes as indicated

(m) Tubing, metallic

WW-T-806b

Sizes as indicated

(2) Conductors

(a) Conductors in buildings shall be copper, of size indicated, color coded; insulation to be of a type to withstand bending at -50 F without damage.

(3) Lighting Fixtures. Conform to Specification 9Yg.

3. Jamesway Wall Extension Kits (Y&D Drawings 936903, 936904 and 936905)

(a) The Wall Extension Kits consist of prefabricated, insulated plywood panels two feet (2') high of length indicated used for increasing the head room of the Jamesway Structure by two feet (2'). Included in the kit is the necessary material for modification of the end walls. The side and end wall panels connect to the floor units by means of bolts and link-lock fasteners. The end walls must be modified in the field in accordance with the drawings. Separate kits are listed for 32' long and 48' Jamesway Structures.

(b) Fabrication. All panels and items for end wall modification shall be fabricated in accordance with the drawings. Materials to conform to paragraph 2. All joints, wood to wood, and plywood to wood, shall be nail-glued with Adhesive A. All exposed surfaces of wood and plywood and all surfaces of steel shall receive one coat of Primer and two (2) coats of Enamel.

4. Jamesway General Electrical (Y&D Drawing 936906)

(a) The General Electrical plan provides a general lighting system with convenience outlets on each fixture. Separate designs are indicated for the 32' long and 48' long Jamesway Structure. This electric system is included as part of the Basic Building indicated on Y&D Drawing 936902.

(b) Fabrication. Materials to conform to paragraph 2-N. Assemblies shall be shop assembled with all parts as indicated and with wire ends cleaned ready for connecting.

5. Jamesway Side Entry Kit - For use with wall extensions (Y&D Drawing 936907, 936908, 936909)

(a) The Side Entry Kit provides a method of entering the Jamesway Structure along either side. It fits between arches and makes a vestibule with outer and inner doors. A four foot (4') long wall extension panel is furnished to replace one of the standard wall extension panels.

(b) Fabrication. Materials to conform to Paragraph 2. All joints, wood to wood, and plywood to wood, shall be nail-glued with Adhesive A. All exposed surfaces of wood and plywood, steel and hardware, shall receive one (1) coat of Primer and two (2) coats of Enamel.

6. Jamesway Side Entry Kit - For use with standard unit (Y&D Drawing 936910, 936911, 936912)

(a) The Side Entry Kit provides a method of entering the Standard (without wall extension) Jamesway Structure on either side. It fits between arches and makes a vestibule with outer and inner doors.

(b) Fabrication. Materials to conform to Paragraph 2. All joints, wood to wood, and plywood to wood, shall be nail-glued with Adhesive A. All exposed surfaces of wood and plywood, steel and hardware, shall receive one (1) coat of Primer and two (2) coats of Enamel.

7. Jamesway Vestibule End Entry Kit (Y&D Drawing 936913)

(a) The Vestibule End Entry Kit provides a door in the end of the standard vestibule. The kit consists of a frame and door, all assembled, ready for installation.

(b) Fabrication. Materials to conform to Paragraph 2. All joints, wood to wood and plywood to wood, shall be nail-glued with Adhesive A. All exposed surfaces of wood, plywood, steel and hardware shall receive one (1) coat of Primer and two (2) coats of Enamel.

8. Jamesway Dry Head Kit (Y&D Drawing 936914)

(a) The Dry Head Kit is used in conjunction with a Jamesway Side Entry Kit to provide a toilet stall. It is furnished in a "knock-down" condition and must be assembled in the field. It is so arranged that the waste can be removed from the exterior of the building.

(b) Fabrication. Materials to conform to Paragraph 2. All shop fabricated joints, wood to wood and wood to plywood, shall be nail-glued with Adhesive A. All surfaces of wood, plywood, steel and hardware shall receive one (1) coat of Primer and two (2) coats of Enamel.

9. Jamesway Tanks and Supports (Y&D Drawing 936915)

(a) The Tanks and Supports provide a 190 gallon Water Storage Tank, with cover, and Tank Support.

(b) Water Storage Tanks shall be formed of aluminum in accordance with details. Joints shall be full butt welds, ground smooth. Edges of sheared sheets shall be ground smooth. Holes in tank for piping shall be reinforced as detailed. Materials to conform to Paragraph 2.

(c) The Tank Support shall be fabricated as detailed ready for field assembly, including all erection bolts. Materials to conform to Paragraph 2.

(d) Welding shall be by inert gas process.

10. Jamesway Special Foundations (Y&D Drawing 936916)

(a) The Special Foundation provides steel supports, for the floor units, spanning 16 feet (16') to continuous timber sills. Included with each Special Foundation is insulation material to be placed over the snow below the foundation members and vent pipes to prevent or delay cavitation by heat from the building. The Special Foundation is to be used under floor areas where excessive heat may be generated. Special Foundations are provided for 16', 32' and 48' long structures. They may be used under the entire building or only a portion of the length.

(b) The Strengthening Members (SM) are pre-cut 2 x 6's for strengthening standard floor units where excessive loads may occur. They are to be field installed.

(c) Fabrication - Steel Beams and Angles. Shall be fabricated in accordance with American Institute of Steel Construction Specification for the Design, Fabrication and Erection of Structural Steel for Bridges and Buildings.

Steel Joists shall be fabricated of the members indicated in accordance with the specifications of the Steel Joist

Institute. Wood sills require no fabrication. Vent Pipes shall be fabricated of galvanized steel of gage indicated. Seams shall be of the single grooved seam type. Parts shall be separate ready for field assembly. Strengthening Members shall be cut to dimensions indicated.

(d) Painting. All surfaces of steel and wood shall receive one (1) coat of Primer and two (2) coats of Enamel. Steel members shall be dipped.

11. Snow Melter Tank and Chute (Y&D Drawing 936917)

(a) The Snow Melter consists of a melting tank and chute. The tank is constructed of plywood, insulation and aluminum liner. Immersion type electric water heaters are used for melting snow. The chute is constructed of lumber and plywood and requires modification of the end wall of the Jamesway Structure for installation. The door frame in the end wall and the entire vestibule must be discarded. The chute, when raised, provides a closure for the new opening.

(b) The Tank, shall be fabricated of the materials and to the dimensions as indicated on the drawings. The aluminum liner shall fit snugly into the plywood box and be secured only at the top. Joints in liner shall be full butt welded and ground smooth. Sheared edges shall be ground smooth. Fittings for pipe outlet shall be installed as detailed. Materials to conform to Paragraph 2. Joints, wood to wood and wood to plywood, shall be screw-glued with Adhesive A. Exposed surfaces of wood or plywood shall receive one (1) coat of Primer and two (2) coats of Enamel.

(c) The Chute and End Wall Modification shall be fabricated of materials and to dimensions indicated on the drawings ready for field installation. Joints, wood to wood and plywood to wood, shall be screw-glued with Adhesive A. Exposed surfaces of all material, except felt, shall receive one (1) coat of Primer and two (2) coats of Enamel.

(d) Welding shall be by inert gas process.

REFERENCES

1. NCEL Technical Note N-422, Erection of Quarters Building for Pioneer Polar Camp, by R. W. Hansen, C. R. Hoffman and E. H. Moser. 26 September 1961.
2. NCEL Technical Report R-241, Pioneer Polar Structures - Accessories for the Jamesway Shelter, by G. E. Sherwood. Port Hueneme, California, to be published in June 1963.

APPENDIX

Drawings For The Jamesway Shelter Accessories

The original of the drawings listed below and shown at reduced scale are available at the Naval Civil Engineering Laboratory, Port Hueneme, California. All drawings are 28 by 40 inches.

<u>Y&D Drawing No.</u>	<u>Title</u>
936902	Jamesway Structure Basic Building
936903	Jamesway Wall Extension Kit Fabrication - Walls
936904	Jamesway Wall Extension Kit Fabrication - Door Frame
936905	Jamesway Wall Extension Kit Erection Details
936906	Jamesway General Electrical 32' and 48' Buildings
936907	Jamesway Side Entry Kit (For use with wall extensions) Fabrication Details
936908	Jamesway Side Entry Kit (For use with wall extensions) Fabrication Details
936909	Jamesway Side Entry Kit (For use with wall extensions) Erection Details
936910	Jamesway Side Entry Kit (For use with standard unit) Fabrication Details
936911	Jamesway Side Entry Kit (For use with standard unit) Fabrication Details

Y&D Drawing No.

Title

936912

Jamesway Side Entry Kit
(For use with standard unit)
Erection Details

936913

Jamesway Vestibule End Entry Kit
Fabrication and Erection Details

936914

Jamesway Dry Head Kit
Fabrication and Erection

936915

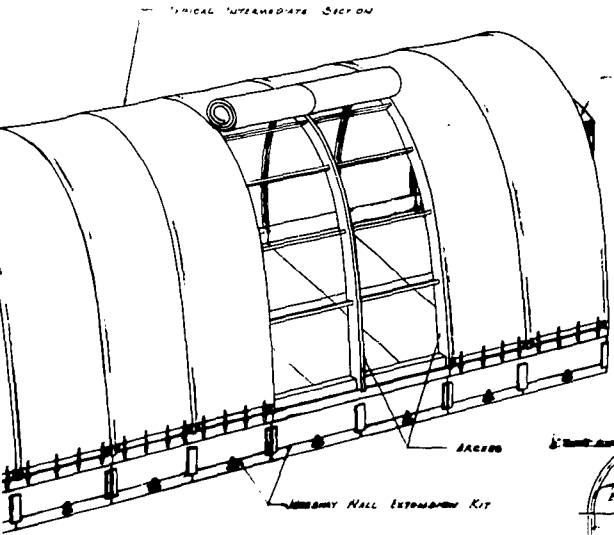
Jamesway Tanks and Supports
Fabrication and Erection

936916

Jamesway Special Foundations
Fabrication and Erection

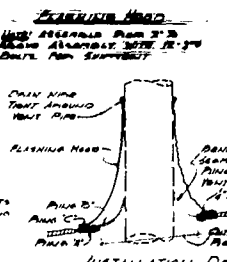
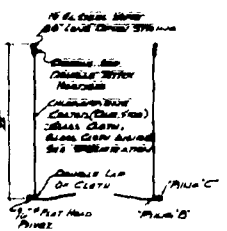
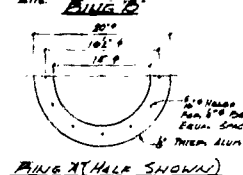
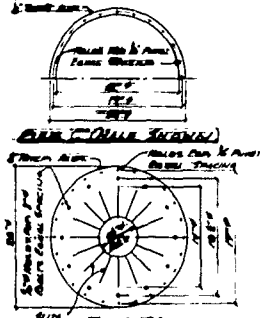
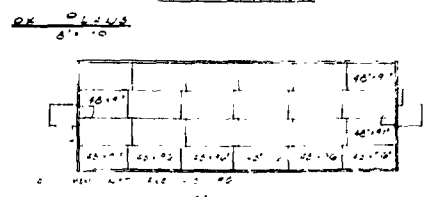
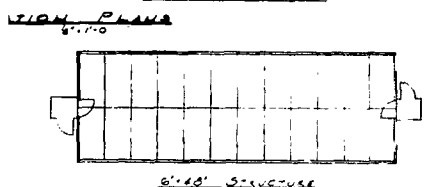
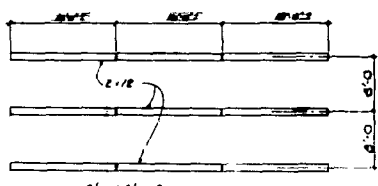
936917

Snow Melter Tank and Chute
Fabrication and Erection



2

PERSPECTIVE (1 UNIT)



VENT ROOF FLASHING

NOTE: THIS ITEM IS NOT INCLUDED IN THE BASIC BUILDING. ANCHORING CHAINS MUST BE INSTALLED BY THE USER. ANCHORING CHAINS MUST BE INSTALLED BY THE USER. ANCHORING CHAINS MUST BE INSTALLED BY THE USER.

REFER TO INCL. 11 FOR ADDITIONAL INFORMATION AND SPECIFICATION

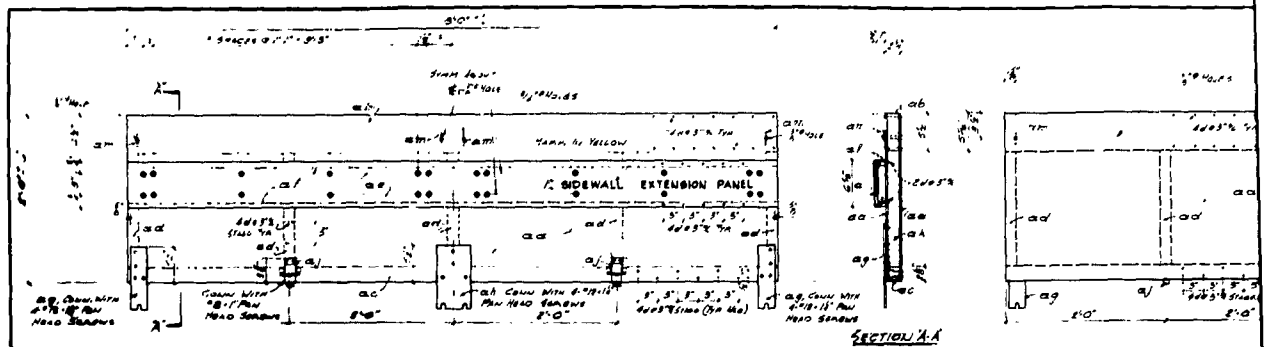
NO.	DESCRIPTION	UNIT	QUANTITY	STOCK NO.	PRICE
1	16' x 66' BASIC BUILDING		1		
2	16' x 66' INTERMEDIATE COMPLETE		1		
3	16' x 66' COMPLETE		1		
4	16' x 66' COMPLETE		1		
5	16' x 66' COMPLETE		1		
6	16' x 66' COMPLETE		1		
7	16' x 66' COMPLETE		1		
8	16' x 66' COMPLETE		1		
9	16' x 66' COMPLETE		1		
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49	16' x 66' COMPLETE		1		
50	16' x 66' COMPLETE		1		
51	16' x 66' COMPLETE		1		
52	16' x 66' COMPLETE		1		
53	16' x 66' COMPLETE		1		
54	16' x 66' COMPLETE		1		
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95	16' x 66' COMPLETE		1		
96	16' x 66' COMPLETE		1		
97	16' x 66' COMPLETE		1		
98	16' x 66' COMPLETE		1		
99	16' x 66' COMPLETE		1		
100	16' x 66' COMPLETE		1		

DEPARTMENT OF THE NAVY
U.S. NAVAL CIVIL ENGINEERING LABORATORY
KING, BENIOFF & ASSOCIATES
PIONEER POLAR STRUCTURES
JAMESWAY STRUCTURE
BASIC BUILDING

GRAPHIC SCALE
APPROVED FOR BUREAU OF NAVAL ARCHITECTURE
DATE: 11-62

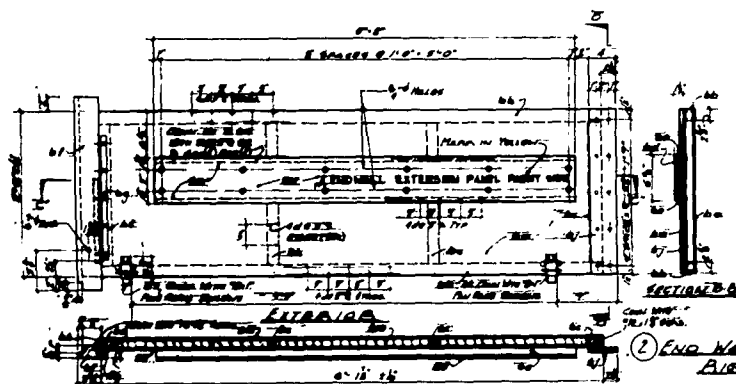
REVISIONS
DATE: 11-62

SCALE AS NOTED
DATE: 11-62



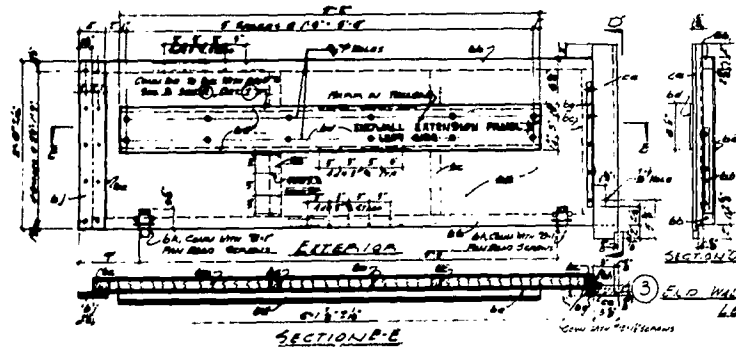
EXTERIOR

① SIDEWALL EXTENSION PANEL
18'10"



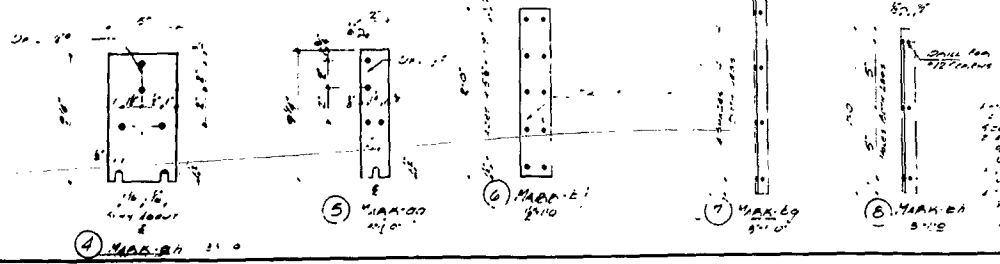
EXTERIOR

② END WALL EXTENSION PANEL
RIGHT SIDE
14'5"



EXTERIOR

③ END WALL EXTENSION
LEFT SIDE
14'10"



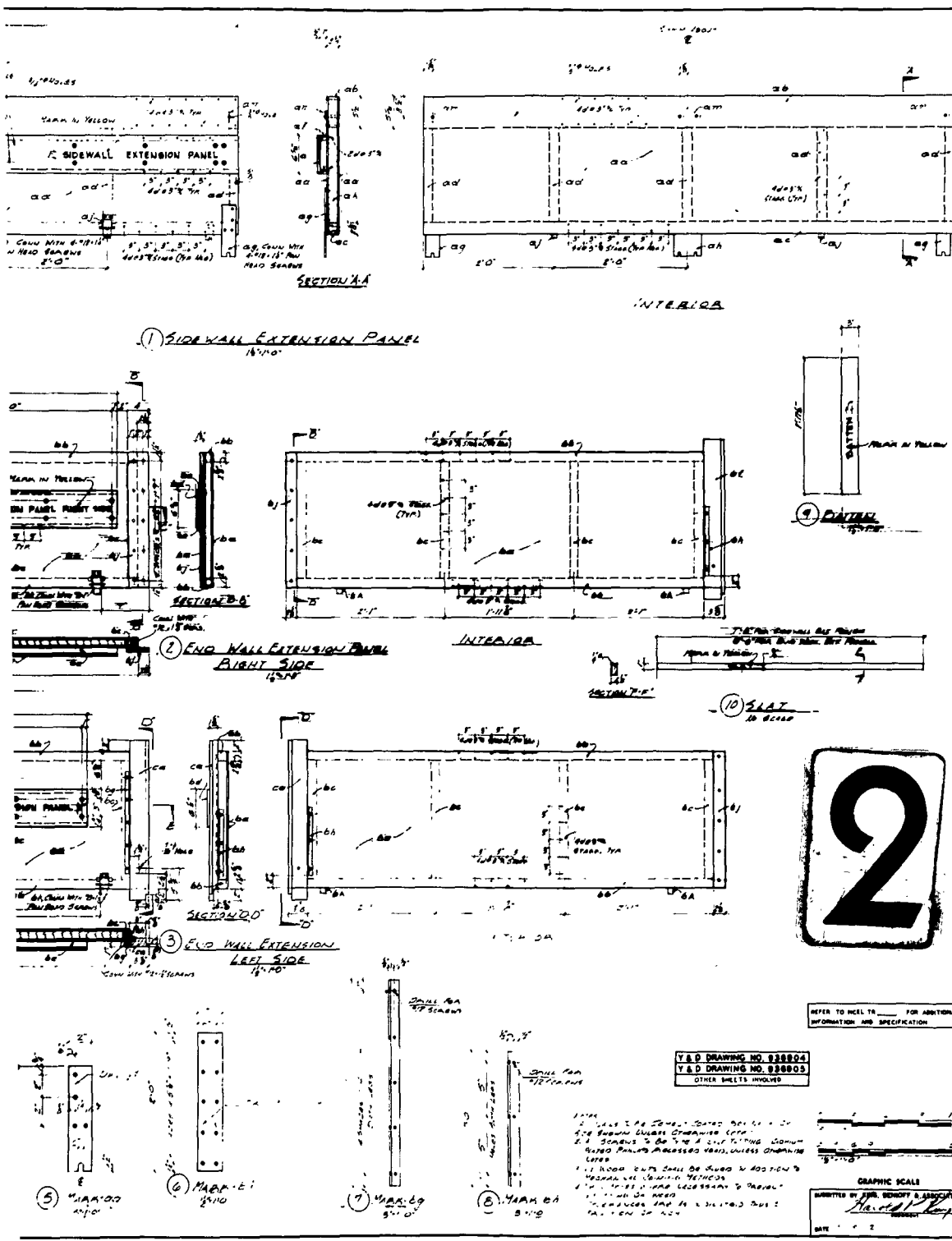
④ MAX 24' 11'0"

⑤ MAX 20' 11'0"

⑥ MAX 19' 9'0"

⑦ MAX 18' 9'0"

⑧ MAX 17' 9'0"



NO.	REVISION	DATE	BY	CHKD.	APPROVED
1	AS BUILT	10/10/00	W. J. JONES		
2	AS BUILT	10/10/00	W. J. JONES		
3	AS BUILT	10/10/00	W. J. JONES		
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100	AS BUILT	10/10/00	W. J. JONES		



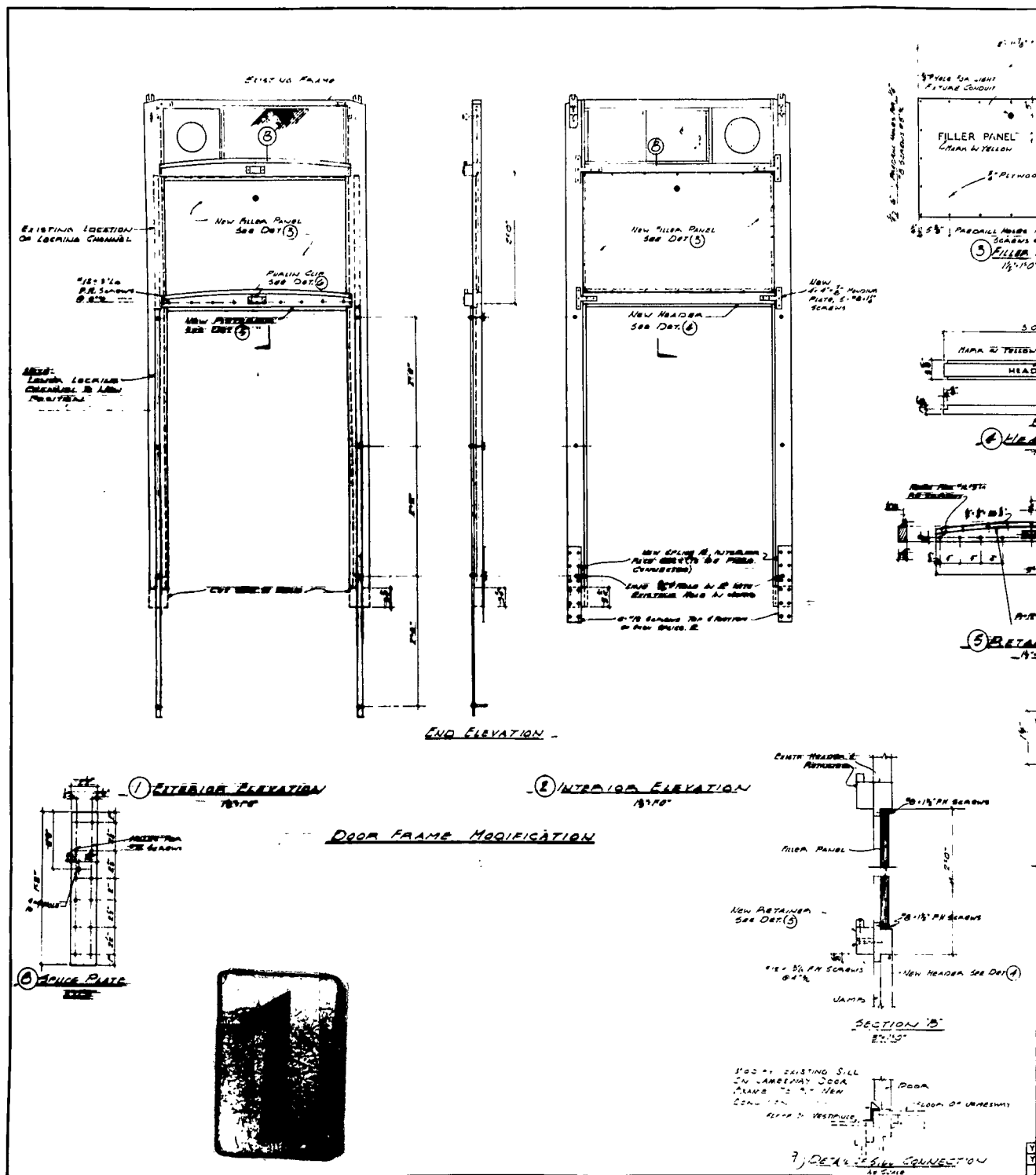
Y&D DRAWING NO. 038804
Y&D DRAWING NO. 038805
OTHER SHEETS INVOLVED

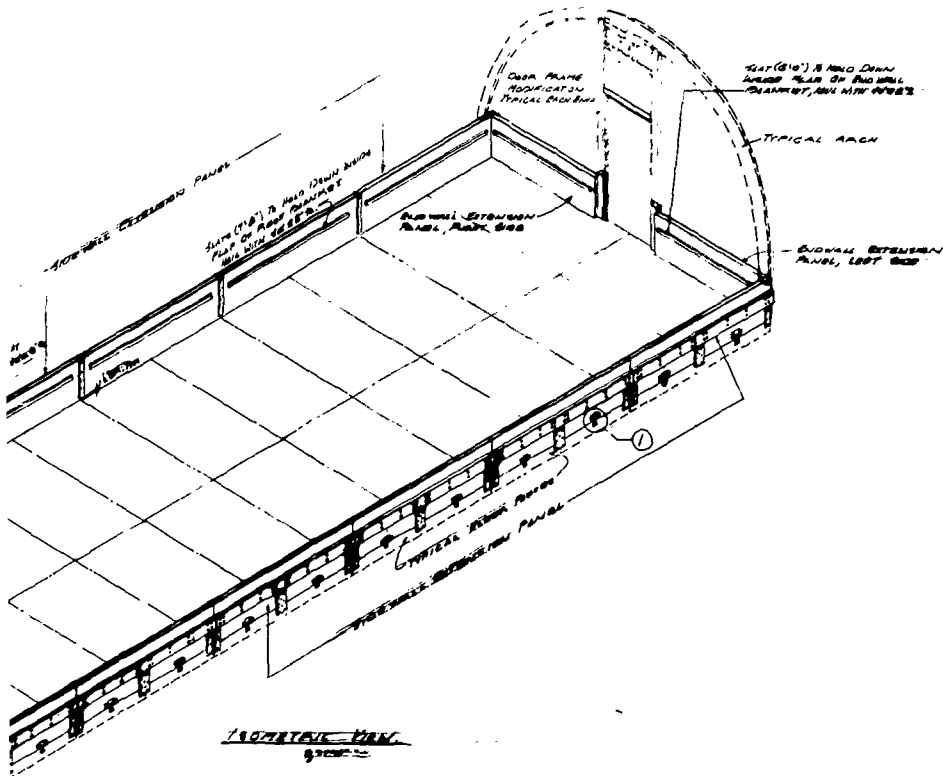
REFER TO INCL. 10 FOR ADDITIONAL INFORMATION AND SPECIFICATION

GRAPHIC SCALE

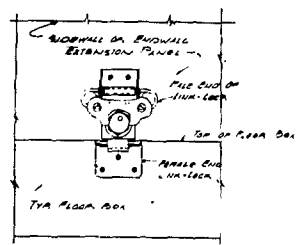
APPROVED BY: [Signature]
DATE: 10/10/00

U.S. NAVAL CIVIL ENGINEERING LABORATORY
KING, BENNETT & ASSOCIATES
PIONEER POLAR STRUCTURES
JAMESWAY WALL EXTENSION KIT
FABRICATION - WALLS
SCALE: 1/8" = 1'-0"
SHEET 2 OF 10
Y&D DRAWING NO. 038803





2



REFER TO INCL. 1 FOR ADDITIONAL INFORMATION AND SPECIFICATION

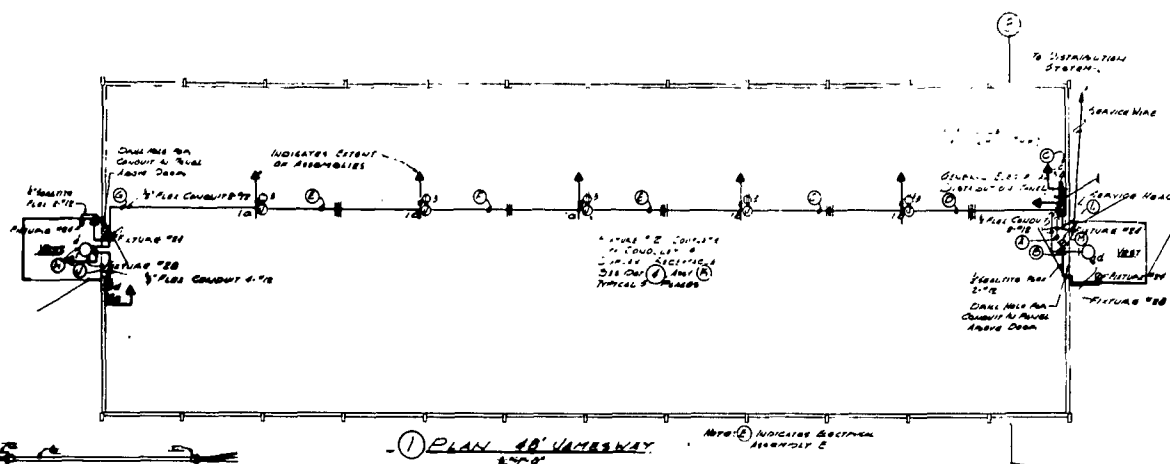
REVISIONS		DATE	APPROVED
1	ISSUED FOR CONSTRUCTION	10/10/60	
2	REVISIONS		
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GRAPHIC SCALE
1" = 10'

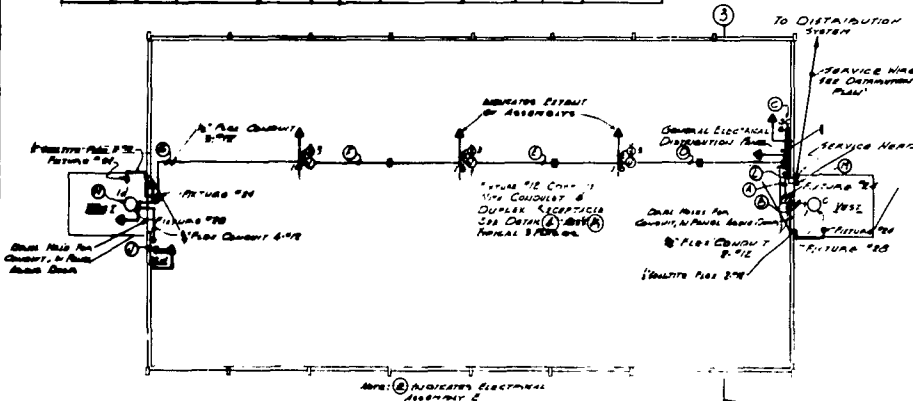
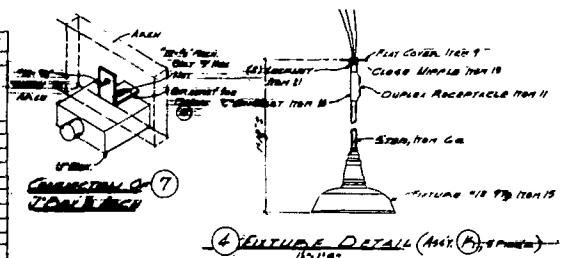
U.S. NAVAL CIVIL ENGINEERING LABORATORY
KING, BENIOFF & ASSOCIATES
PIONEER POLAR STRUCTURES
JAMESWAY WALL EXTENSION KIT
ERECTION DETAILS

DATE: 10/10/60
SCALE: AS NOTED
SHEET: 4 OF 10
DRAWING NO: 938803

U.S. NAVAL CIVIL ENGINEERING LABORATORY
KING, BENIOFF & ASSOCIATES
PIONEER POLAR STRUCTURES
JAMESWAY WALL EXTENSION KIT
ERECTION DETAILS

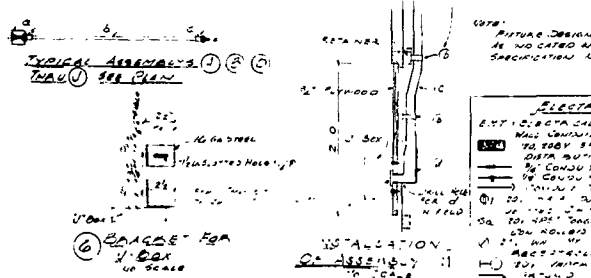


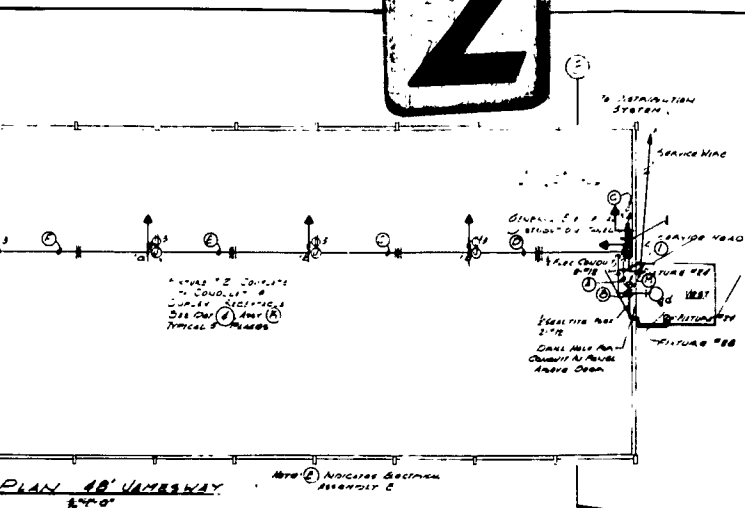
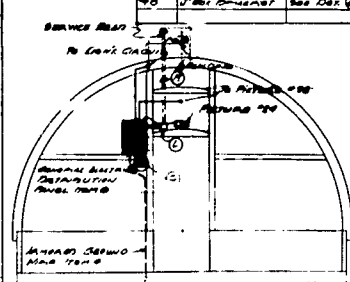
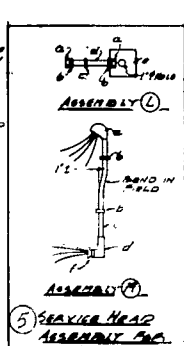
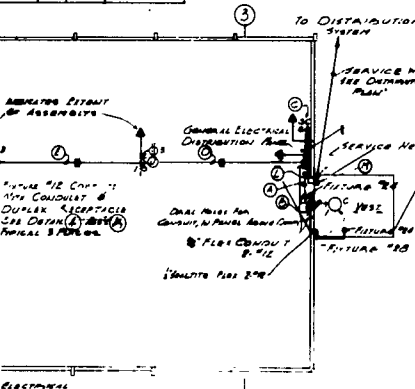
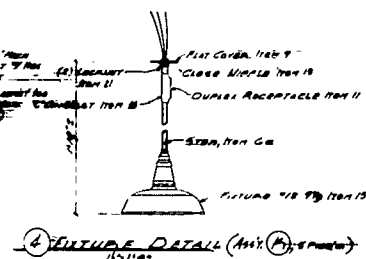
- ① PLAN 40' VARIWAY

[illegible]

② PLAN 32' JAMESWAY
E. 110°

Station	Alt	Lat	Long	Time	Station	Alt	Lat	Long	Time	Station	Alt	Lat	Long	Time
(1)	1	m	2.52		(2)	1	m	2.52		(3)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(4)	1	m	2.52		(5)	1	m	2.52		(6)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(7)	1	m	2.52		(8)	1	m	2.52		(9)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(10)	1	m	2.52		(11)	1	m	2.52		(12)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(13)	1	m	2.52		(14)	1	m	2.52		(15)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(16)	1	m	2.52		(17)	1	m	2.52		(18)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(19)	1	m	2.52		(20)	1	m	2.52		(21)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(22)	1	m	2.52		(23)	1	m	2.52		(24)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(25)	1	m	2.52		(26)	1	m	2.52		(27)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(28)	1	m	2.52		(29)	1	m	2.52		(30)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(31)	1	m	2.52		(32)	1	m	2.52		(33)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(34)	1	m	2.52		(35)	1	m	2.52		(36)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(37)	1	m	2.52		(38)	1	m	2.52		(39)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(40)	1	m	2.52		(41)	1	m	2.52		(42)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	
(43)	1	m	2.52		(44)	1	m	2.52		(45)	1	m	2.52	
			2.52					2.52					2.52	
			2.52					2.52					2.52	

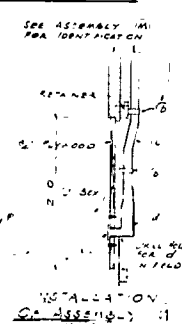
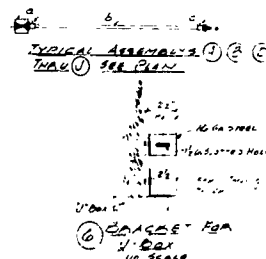
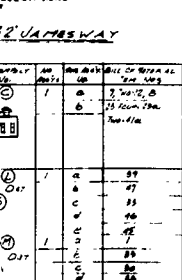


[illegible][illegible]

NOTE:
ALL WINE SEEMS TO BE AMERICAN WINE. STAMPS.
NO OBSERVATIONS IN HANNOVER. COL HAS 40
"COLLECT" BL. CHECK BL. 1/200
WINE
AT AGO
YELLOW
THOSE AGES TO COLON OF ALLOCATION
ON WINE.

* REMARK COMMENT IN CARTON (100 PART OF APPROVALS)

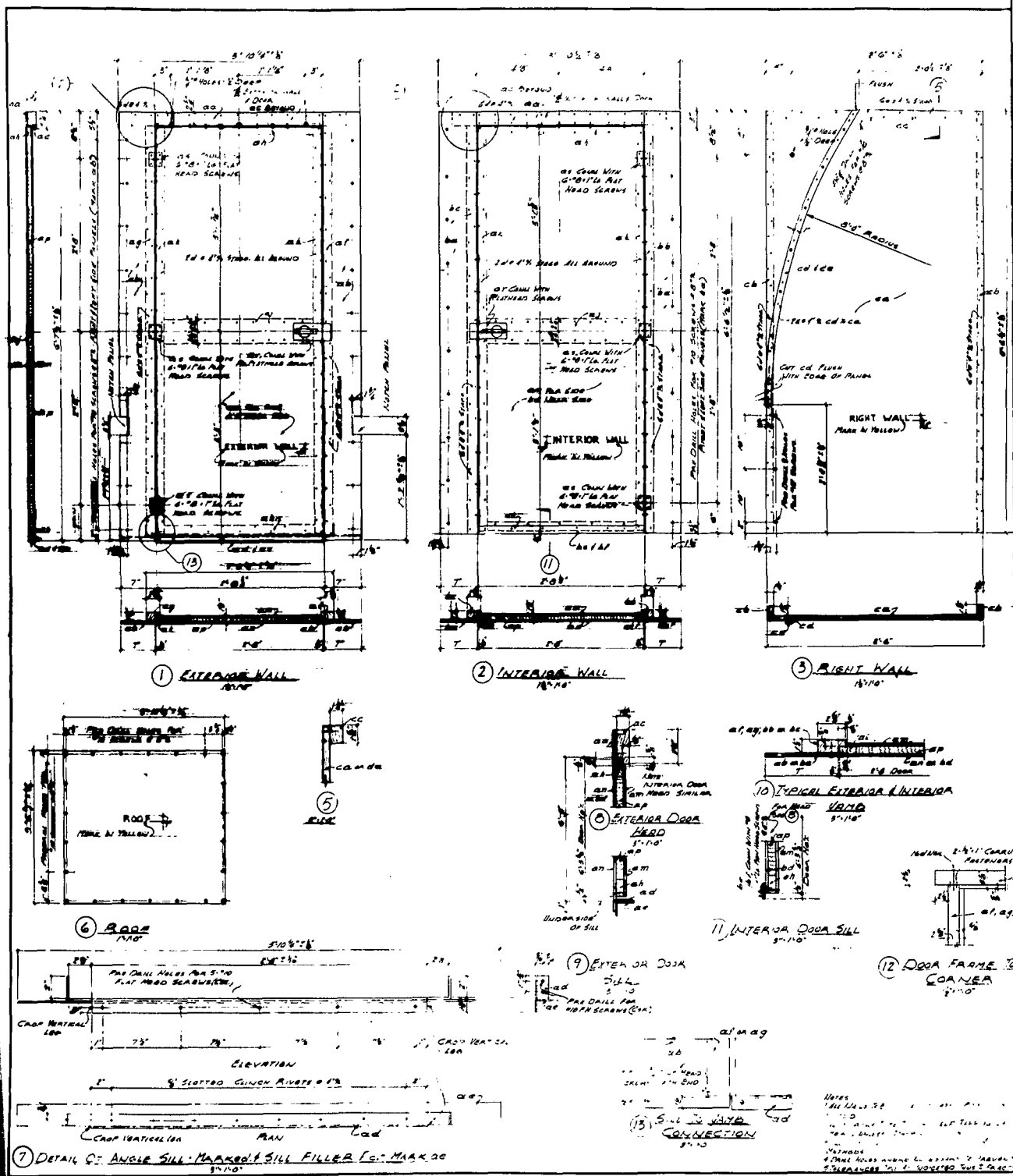
NOTE: ALL SCENES ON TOP 8" SELLING POINT. (BAGGAGE)
PLATED PULVER, ACCORDING TO AGO (BAGGAGE) OTHER WAS
NOTED.

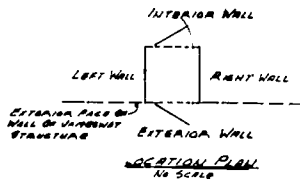
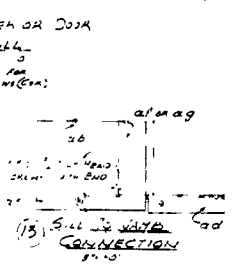
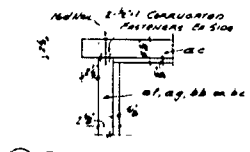
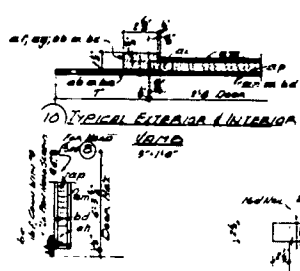
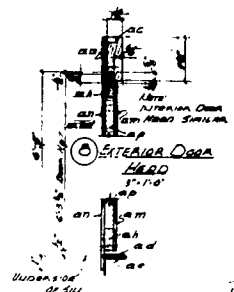
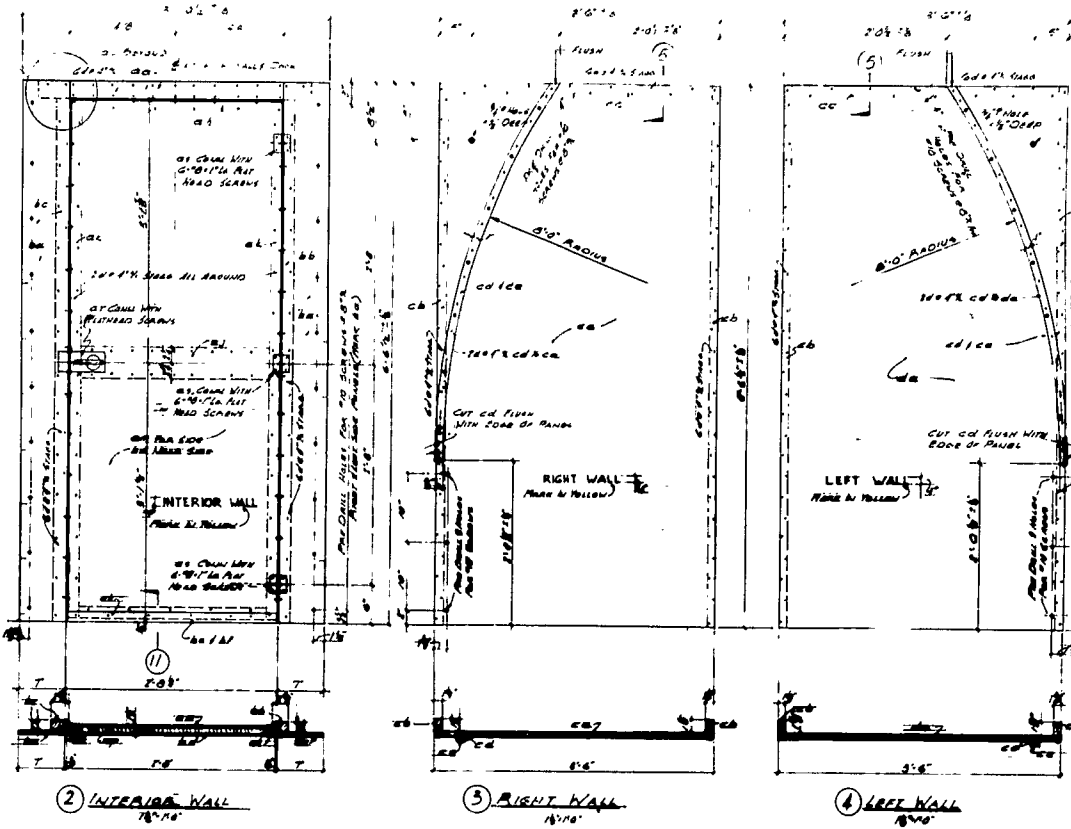


PICTURE DESIGNATION NUMBERS ARE
AS LOCATED IN BUREAU OF YEARS & CLOCKS

[illegible]

REFER TO INCL. TR. _____ FOR ADDITIONAL INFORMATION AND SPECIFICATION	SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS				
DEPARTMENT OF THE NAVY		U.S. NAVAL CIVIL ENGINEERING LABORATORY		OFFICE OF TOWNS AND BRIGGS
PORT HURON		KING, BENIOFF & ASSOCIATES		CONSTRUCTIVE ENGINEER
				ENGINEER NAVAL ARCHITECT
PIONEER POLAR STRUCTURES				
JAMESWAY GENERAL ELECTRICAL				
32' & 48' BUILDINGS				
GRAPHIC SCALE		APPROVED		DATE
SUBMITTED BY KING, BENIOFF & ASSOCIATES				54.03
RECEIVED				
FOR CHIEF OF BUREAU				





REVISIONS		DATE	APPROVED
1	REVISION		
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
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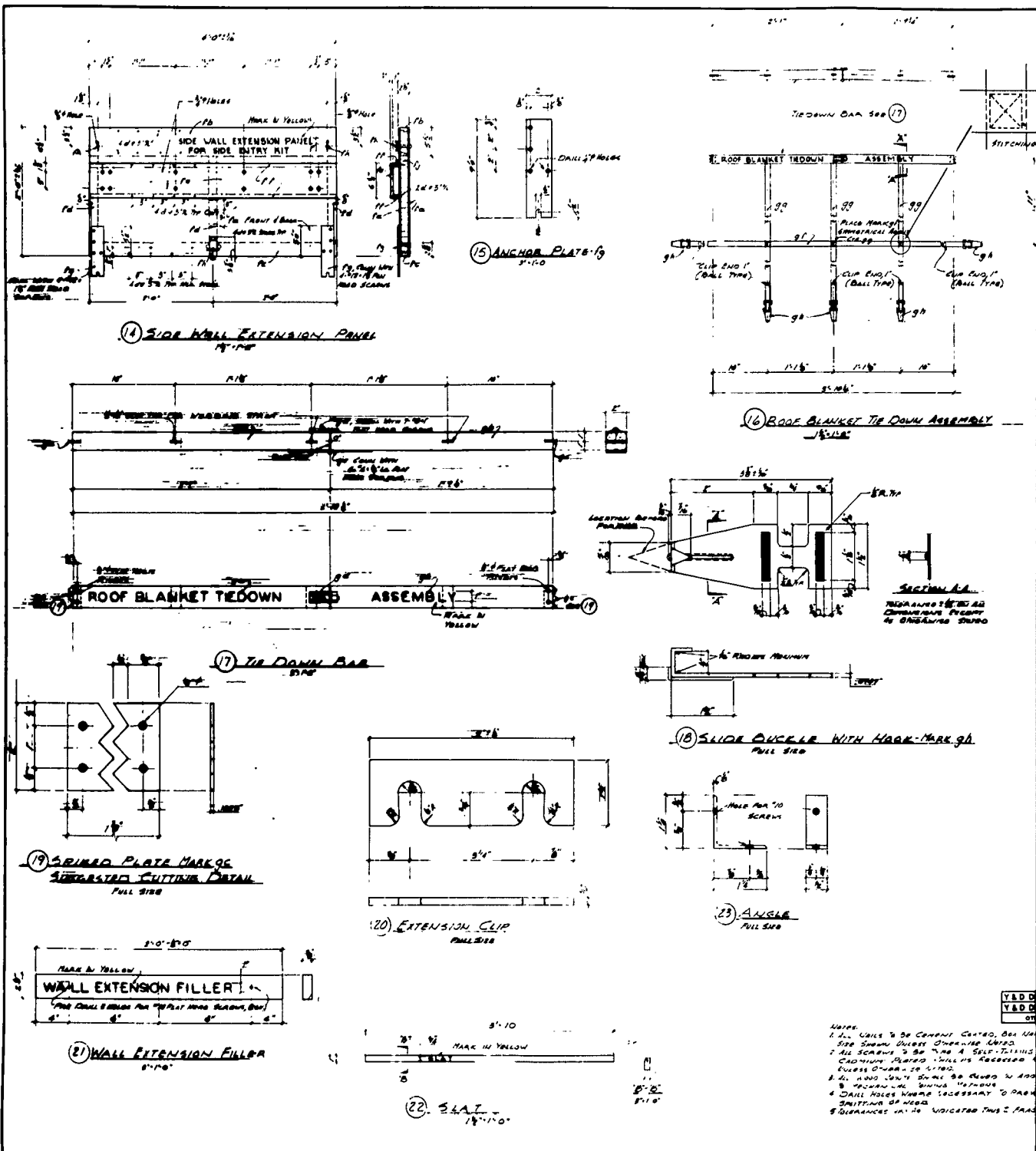
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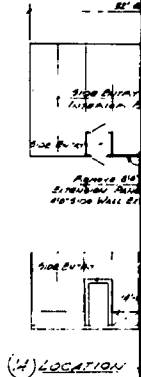
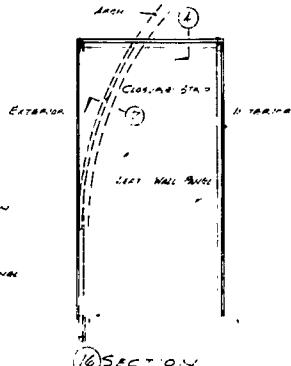
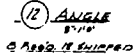
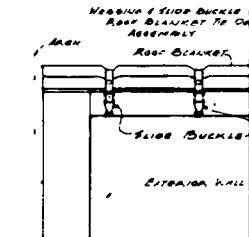
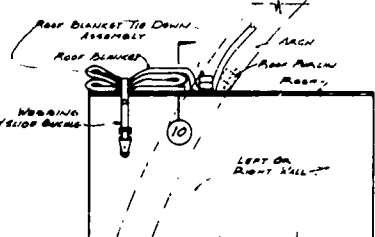
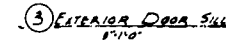
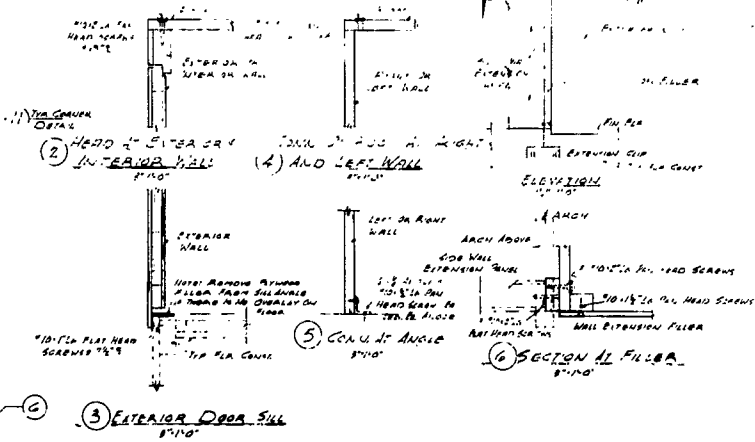
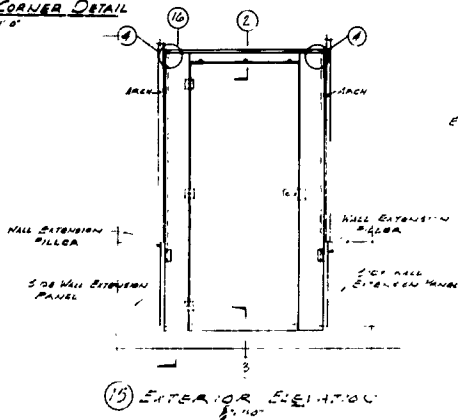
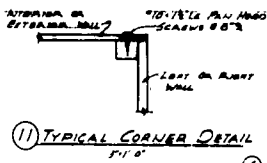
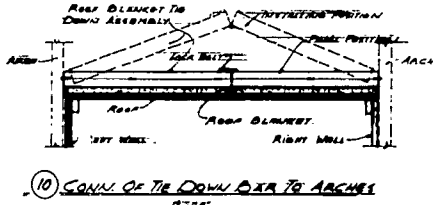
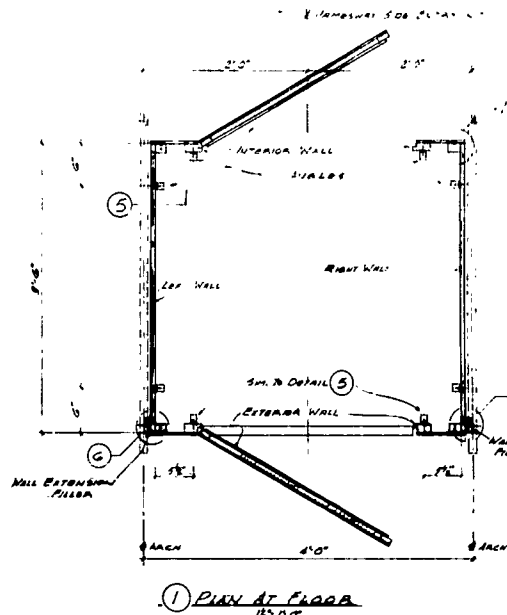
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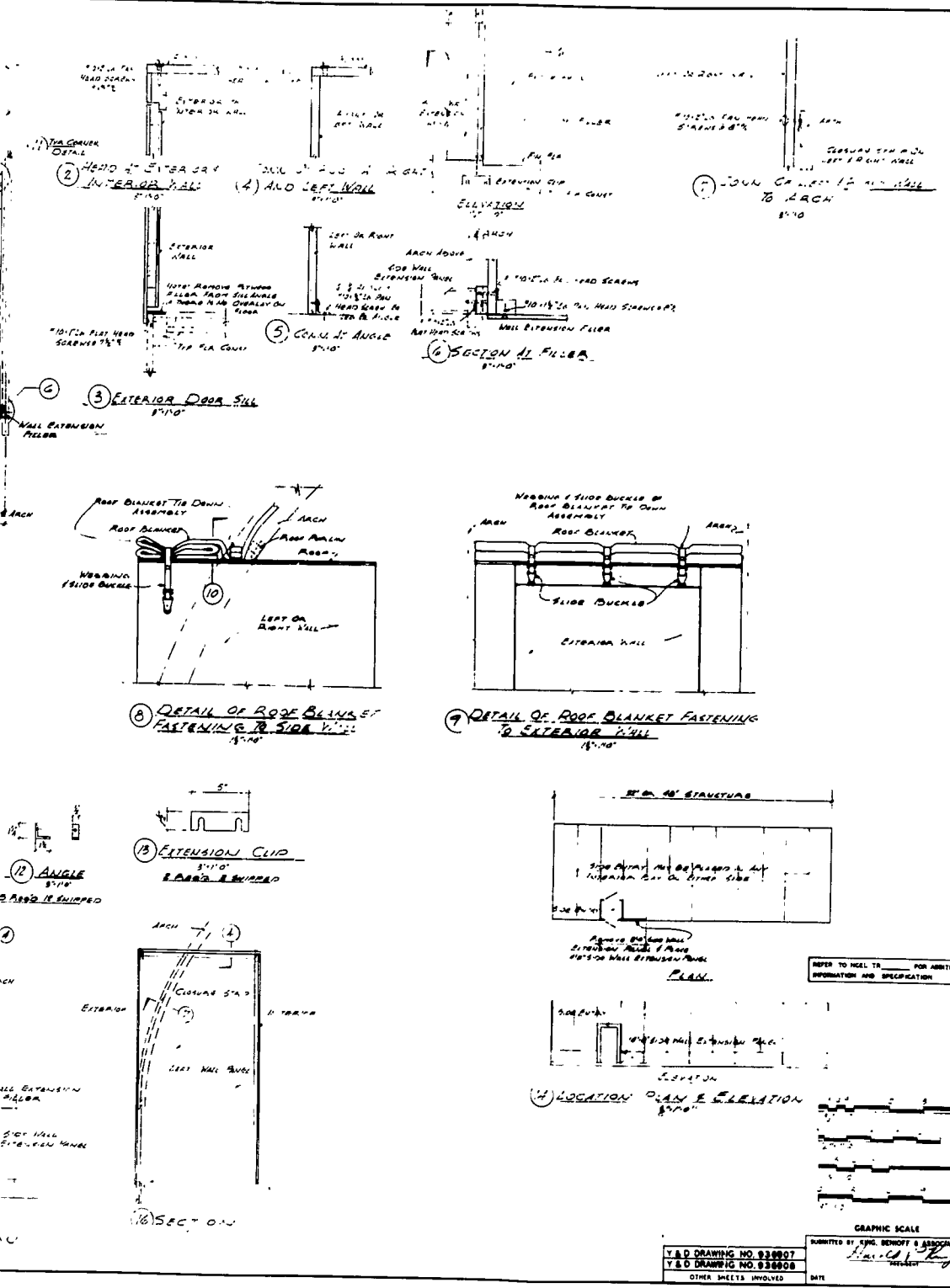
DEPARTMENT OF THE NAVY
U.S. NAVAL CIVIL ENGINEERING LABORATORY
KING, BENIOFF & ASSOCIATES
PIONEER POLAR STRUCTURES
JAMESWAY SIDE ENTRY KIT
(FOR USE WITH WALL EXTENSIONS)
FABRICATION DETAILS

APPROVED BY: [Signature]
DATE: 12/15/61

SCALE AS NOTED ON DRAWING
SHEET 2 OF 10
100 DRAWING NO. 938907







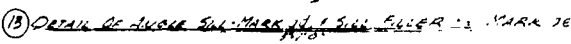
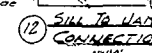
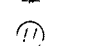
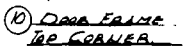
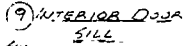
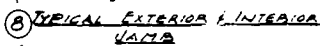
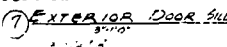
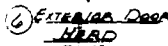
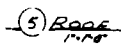
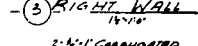
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14	1/2\"	1	EA
15	1/2\"	1	EA
16	1/2\"	1	EA

5.17.10 BE USED TO CONNECT ROOF BLANKET TO WALL
EXTENSION AT INTERIOR OF BLANKET. SIMILAR TO BLANKET ON
TERMINUS OF WALL EXTENSION

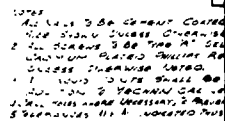
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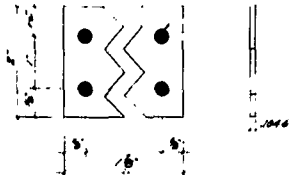
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DEPARTMENT OF THE NAVY U.S. NAVAL CIVIL ENGINEERING LABORATORY
PIONEER POLAR STRUCTURES JAMESWAY SIDE ENTRY KIT (FOR USE WITH WALL EXTENSIONS) ERECTION DETAILS
GRAPHIC SCALE
Y & D DRAWING NO. 936907
Y & D DRAWING NO. 936908
DATE

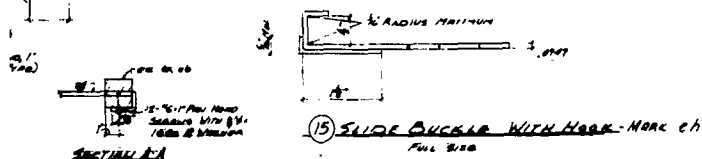


1000
1. ALL LIES TO BE CORRECTED
2. SEE SHOW SUBJECTS STRAIN
3. THE SUBJECTS TO BE "THE A" &
4. CARRYING OUTED ON THE
5. SUBJECTS STRAINING
6. THE WOOD JOINTS SHALL
7. ADD NEW TO THE
8. DALL HUES WHERE NECESSARY
9. THE LIES OF WOOD
10. F. STRAINING THE LIES NO MORE
11. OF LIES

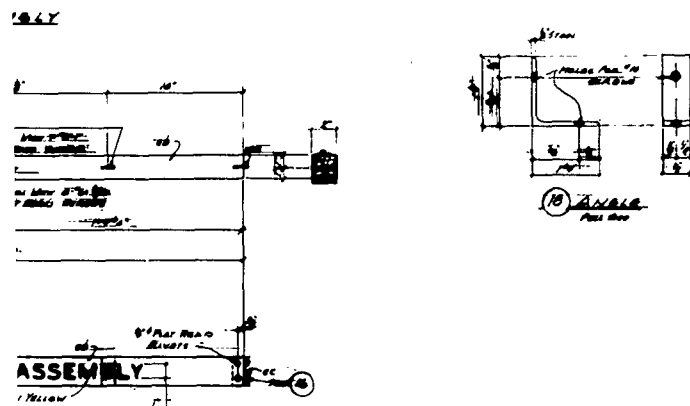




(16) SPIKED PLATE - MARK CC
SUBMERGED CUTTING DETAIL
PULL 6100



(15) SLIDE BUCKLE WITH MARK - MARK CH
Full Size



⑩ Answer



FOOT PRINTS - 12500 - 12512.00		12500		12512.00	
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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

REFER TO INSTRUCTIONS FOR ADDITIONAL INFORMATION AND SPECIFICATION		<table><tr><td>ITEM NO.</td><td>DESCRIPTION</td><td>DATE</td><td>APPROVED</td></tr><tr><td colspan="4">REVISIONS</td></tr><tr><td colspan="2">SUBMITTER OF THE BLANK: U.S. NAVAL CIVIL ENGINEERING LABORATORY</td><td colspan="2">DIVISION OF POWER AND LIGHT</td></tr><tr><td colspan="2">FIRST COPIES TO: KING, BENIOFF & ASSOCIATES</td><td colspan="2">ADDRESS: 1000 UNIVERSITY AVENUE, NEWTON, MASS., 02459</td></tr></table>		ITEM NO.	DESCRIPTION	DATE	APPROVED	REVISIONS				SUBMITTER OF THE BLANK: U.S. NAVAL CIVIL ENGINEERING LABORATORY		DIVISION OF POWER AND LIGHT		FIRST COPIES TO: KING, BENIOFF & ASSOCIATES		ADDRESS: 1000 UNIVERSITY AVENUE, NEWTON, MASS., 02459	
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4194304 x 4194304

8388608 x 8388608

16777216 x 16777216

33554432 x 33554432

67108864 x 67108864

134217728 x 134217728

268435456 x 268435456

536870912 x 536870912

1073741824 x 1073741824

2147483648 x 2147483648

4294967296 x 4294967296

8589934592 x 8589934592

17179869184 x 17179869184

34359738368 x 34359738368

68719476736 x 68719476736

137438953472 x 137438953472

274877906944 x 274877906944

549755813888 x 549755813888

1099511627776 x 1099511627776

2199023255552 x 2199023255552

4398046511104 x 4398046511104

8796093022208 x 8796093022208

17592186044416 x 17592186044416

35184372088832 x 35184372088832

70368744177664 x 70368744177664

140737488355328 x 140737488355328

281474976710656 x 281474976710656

562949953421312 x 562949953421312

1125899906842624 x 1125899906842624

2251799813685248 x 2251799813685248

4503599627370496 x 4503599627370496

9007199254740992 x 9007199254740992

18014398509481984 x 18014398509481984

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72057594037927936 x 72057594037927936

144115188075855872 x 144115188075855872

288230376151711744 x 288230376151711744

576460752303423488 x 576460752303423488

1152921504606846976 x 1152921504606846976

2305843009213693952 x 2305843009213693952

4611686018427387904 x 4611686018427387904

9223372036854775808 x 9223372036854775808

18446744073709551616 x 18446744073709551616

36893488147419103232 x 36893488147419103232

73786976294838206464 x 73786976294838206464

147573952589676412928 x 147573952589676412928

295147905179352825856 x 295147905179352825856

590295810358705651712 x 590295810358705651712

1180591620717411303424 x 1180591620717411303424

2361183241434822606848 x 2361183241434822606848

4722366482869645213696 x 4722366482869645213696

1/4 x 1/4

1/2 x 1/2

1 x 1

2 x 2

4 x 4

8 x 8

16 x 16

32 x 32

64 x 64

128 x 128

256 x 256

512 x 512

1024 x 1024

2048 x 2048

4096 x 4096

8192 x 8192

16384 x 16384

32768 x 32768

65536 x 65536

131072 x 131072

262144 x 262144

524288 x 524288

1048576 x 1048576

2097152 x 2097152

4194304 x 4194304

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4722366482869645213696 x 4722366482869645213696

1/4 x 1/4

1/2 x 1/2

1 x 1

2 x 2

4 x 4

8 x 8

16 x 16

32 x 32

64 x 64

128 x 128

256 x 256

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17592186044416 x 17592186044416

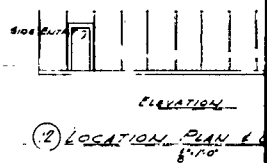
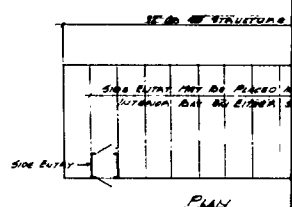
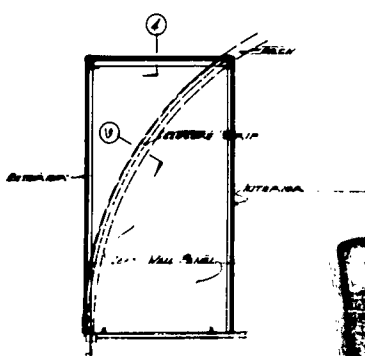
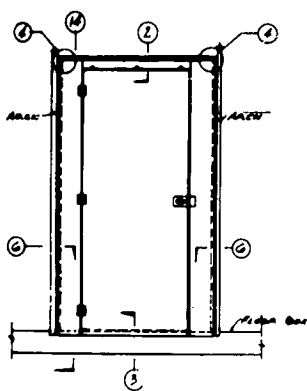
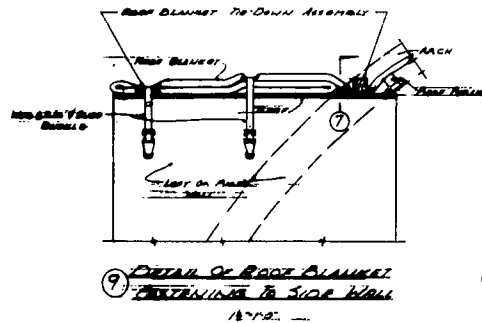
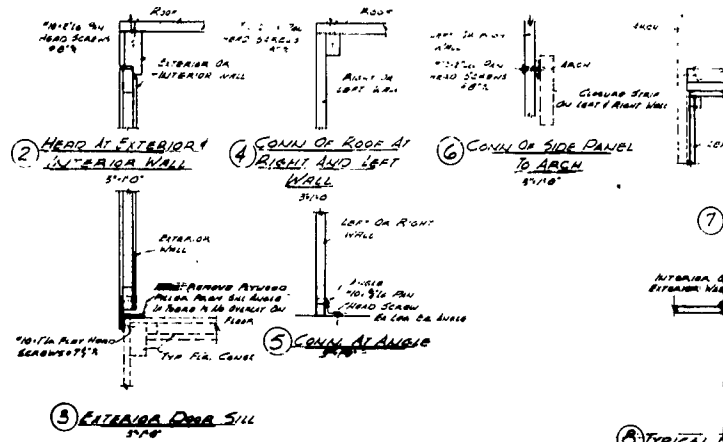
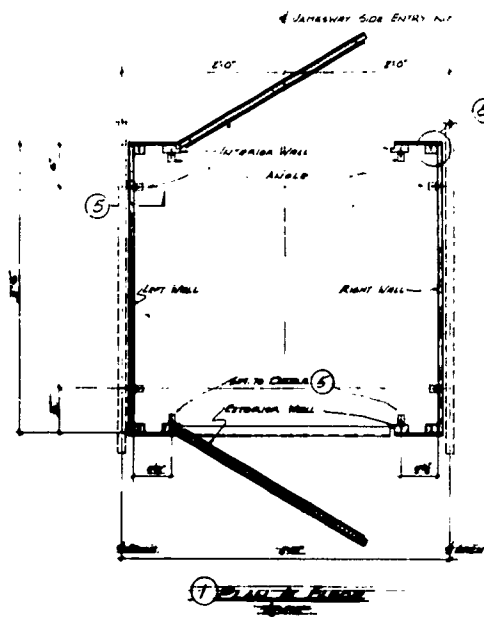
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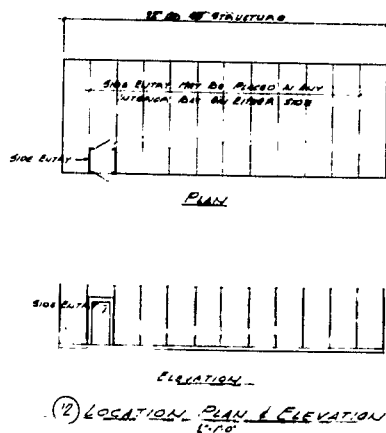
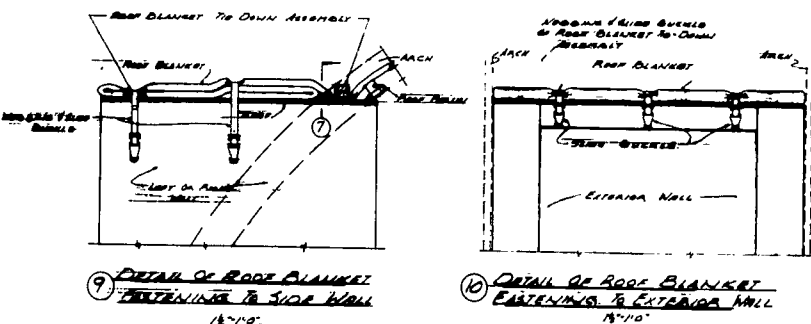
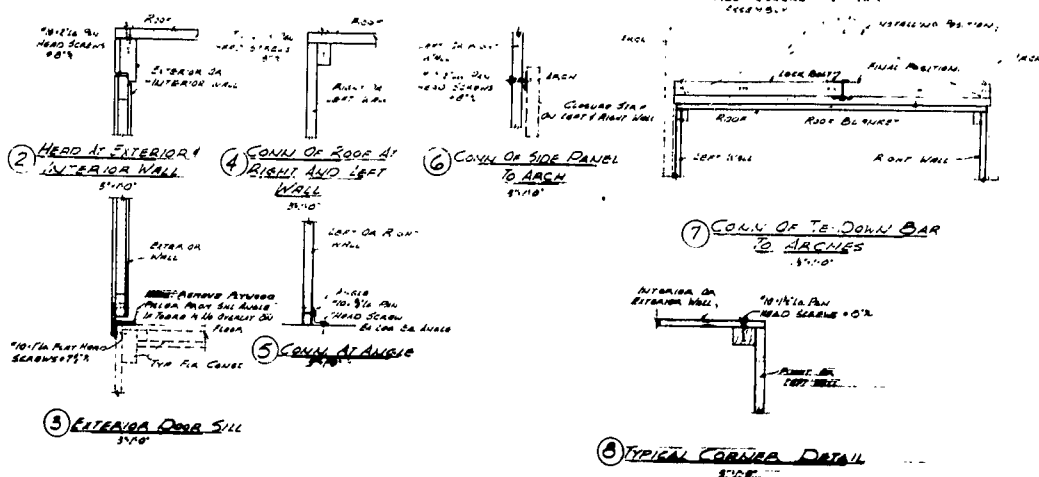
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281474976710656 x 281474976710656

562949953421312 x





2

REFER TO NCCL TR. FOR ADDITIONAL INFORMATION AND SPECIFICATION



Y.S.D. DRAWING NO. 030010
Y.S.D. DRAWING NO. 030011
OTHER SHEETS INVOLVED

NO.	DESCRIPTION	UNIT	QUANTITY
1	ROOF BLANKET	SQ. YD.	1
2	ROOF BLANKET	SQ. YD.	1
3	ROOF BLANKET	SQ. YD.	1
4	ROOF BLANKET	SQ. YD.	1
5	ROOF BLANKET	SQ. YD.	1
6	ROOF BLANKET	SQ. YD.	1
7	ROOF BLANKET	SQ. YD.	1
8	ROOF BLANKET	SQ. YD.	1
9	ROOF BLANKET	SQ. YD.	1
10	ROOF BLANKET	SQ. YD.	1
11	ROOF BLANKET	SQ. YD.	1
12	ROOF BLANKET	SQ. YD.	1
13	ROOF BLANKET	SQ. YD.	1
14	ROOF BLANKET	SQ. YD.	1
15	ROOF BLANKET	SQ. YD.	1
16	ROOF BLANKET	SQ. YD.	1
17	ROOF BLANKET	SQ. YD.	1
18	ROOF BLANKET	SQ. YD.	1
19	ROOF BLANKET	SQ. YD.	1
20	ROOF BLANKET	SQ. YD.	1
21	ROOF BLANKET	SQ. YD.	1
22	ROOF BLANKET	SQ. YD.	1
23	ROOF BLANKET	SQ. YD.	1
24	ROOF BLANKET	SQ. YD.	1
25	ROOF BLANKET	SQ. YD.	1
26	ROOF BLANKET	SQ. YD.	1
27	ROOF BLANKET	SQ. YD.	1
28	ROOF BLANKET	SQ. YD.	1
29	ROOF BLANKET	SQ. YD.	1
30	ROOF BLANKET	SQ. YD.	1
31	ROOF BLANKET	SQ. YD.	1
32	ROOF BLANKET	SQ. YD.	1
33	ROOF BLANKET	SQ. YD.	1
34	ROOF BLANKET	SQ. YD.	1
35	ROOF BLANKET	SQ. YD.	1
36	ROOF BLANKET	SQ. YD.	1
37	ROOF BLANKET	SQ. YD.	1
38	ROOF BLANKET	SQ. YD.	1
39	ROOF BLANKET	SQ. YD.	1
40	ROOF BLANKET	SQ. YD.	1
41	ROOF BLANKET	SQ. YD.	1
42	ROOF BLANKET	SQ. YD.	1
43	ROOF BLANKET	SQ. YD.	1
44	ROOF BLANKET	SQ. YD.	1
45	ROOF BLANKET	SQ. YD.	1
46	ROOF BLANKET	SQ. YD.	1
47	ROOF BLANKET	SQ. YD.	1
48	ROOF BLANKET	SQ. YD.	1
49	ROOF BLANKET	SQ. YD.	1
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51	ROOF BLANKET	SQ. YD.	1
52	ROOF BLANKET	SQ. YD.	1
53	ROOF BLANKET	SQ. YD.	1
54	ROOF BLANKET	SQ. YD.	1
55	ROOF BLANKET	SQ. YD.	1
56	ROOF BLANKET	SQ. YD.	1
57	ROOF BLANKET	SQ. YD.	1
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83	ROOF BLANKET	SQ. YD.	1
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86	ROOF BLANKET	SQ. YD.	1
87	ROOF BLANKET	SQ. YD.	1
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89	ROOF BLANKET	SQ. YD.	1
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91	ROOF BLANKET	SQ. YD.	1
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96	ROOF BLANKET	SQ. YD.	1
97	ROOF BLANKET	SQ. YD.	1
98	ROOF BLANKET	SQ. YD.	1
99	ROOF BLANKET	SQ. YD.	1
100	ROOF BLANKET	SQ. YD.	1

U.S. NAVAL CIVIL ENGINEERING LABORATORY

KING, BENOFF & ASSOCIATES

PIONEER POLAR STRUCTURES

JAMESWAY SIDE ENTRY KIT

(FOR USE WITH STANDARD UNIT)

ERECTION DETAILS

DATE: 11/10/60

Y.S.D. DRAWING NO. 030012

ITEM	MARK	TYPE	SIZE	MATERIAL	QUANTITY	REMARKS
1	HEAD		4" x 4" x 1/2"	WOOD	1	See Det 1 (P. 4)
2	TAIL		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
3	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
4	W.C. - JAMB		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
5	THRESHOLD		1/2" x 1/2" x 1/2"	STEEL	1	See Det 1 (P. 4)
6	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	2	See Det 1 (P. 4)
7	W.C. - RAIL		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
8	STILE		1/2" x 1/2" x 1/2"	WOOD	2	See Det 1 (P. 4)
9	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
10	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
11	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
12	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
13	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)
14	W.C. - AND		1/2" x 1/2" x 1/2"	WOOD	1	See Det 1 (P. 4)

IF THESE SCHEMS TO BE SUPPLIED BY MANUFACTURER & PACKED FOR SHIPMENT WITH VESTIBULE END ENTRY

REVISIONS

DATE APPROVED

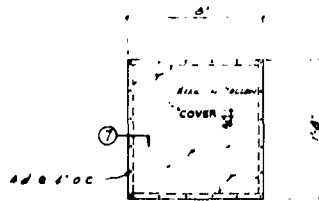
DEPARTMENT OF THE NAVY
U.S. NAVAL CIVIL ENGINEERING
LABORATORY
KING, BENIOFF & ASSOCIATES

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

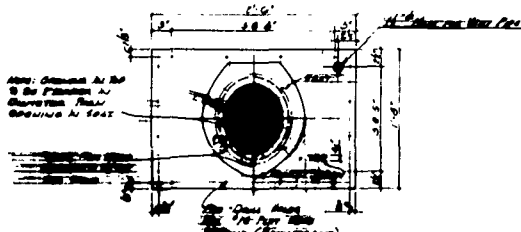
PIONEER POLAR STRUCTURES
JAMESWAY VESTIBULE END ENTRY KIT
FABRICATION & ERECTION DETAILS

APPROVED BY: [Signature]
DATE: 2-2-66

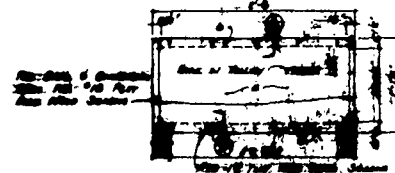
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SCALE AS NOTED ON SHEET 12 OF 19
7-0-0 DRAWING NO. 036913



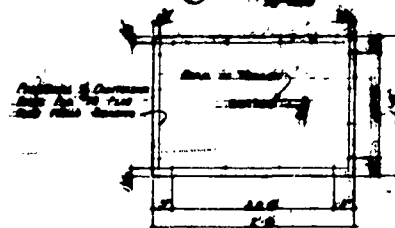
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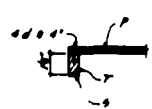
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③ FRONT
1/2\"/>



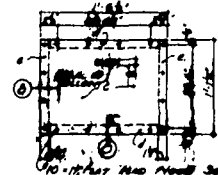
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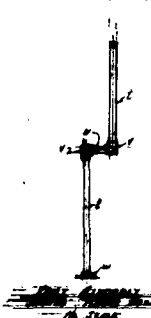
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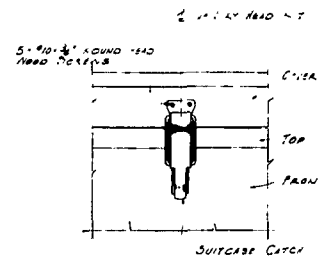
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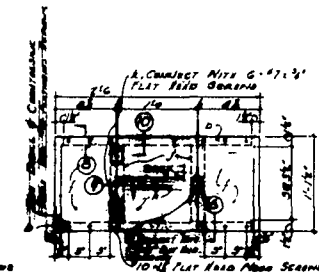
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⑧ 1/2\"/>



⑨ COVER LATCH CONNECTION
1/2\"/>



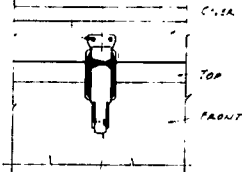
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DRY HAND KIT
FABRICATION DETAILS

NOTE:
1. ALL LISTS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
2. ALL SCREWS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
3. ALL PLATED PARTS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
4. ALL RODS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
5. ALL BOLTS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
6. ALL NUTS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
7. ALL WASHERS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
8. ALL SPACERS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
9. ALL BRACKETS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.
10. ALL RIVETS TO BE TYPE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.

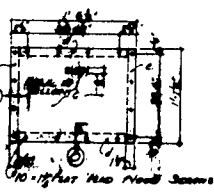
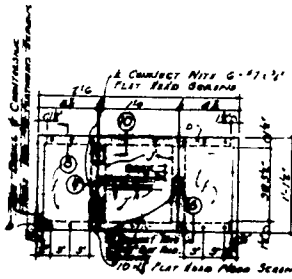


5" x 10" x 1/4" AROUND HEAD
WOOD SCREWS



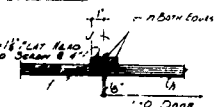
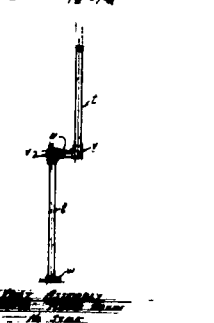
SUITS CASE LATCH

(D) COVER LATCH CONNECTION
REF. 5122



(8) END
10" x 14" PLAT HEAD WOOD SCREWS

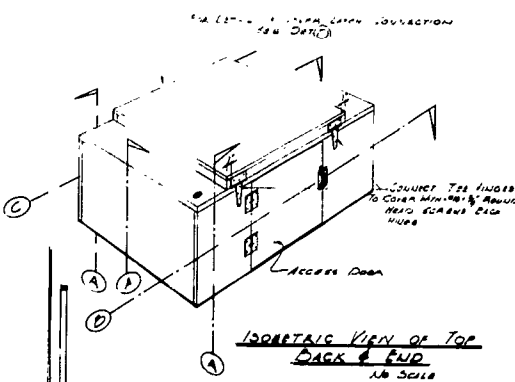
(9) DRY
10" x 14" PLAT HEAD WOOD SCREWS



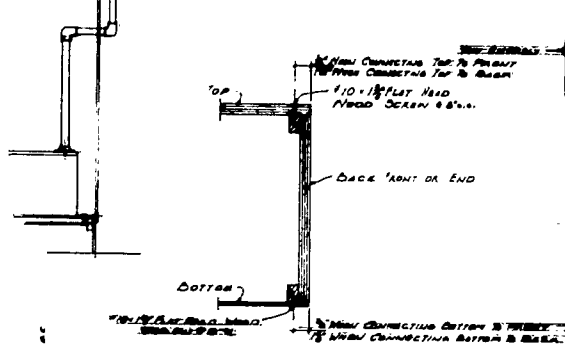
(9) 3" x 10"

(10) 3" x 10"

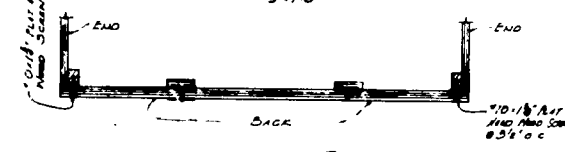
NOTE:
1. ALL TO BE THIN COATED
UNLESS OTHER IS NOTED
2. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
3. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
4. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
5. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
6. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
7. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
8. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
9. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.
10. ALL SCREWS TO BE TYPE "A" 4" TAPPING 1/4" DIA.



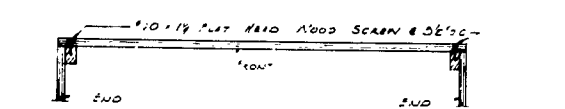
ISOMETRIC VIEW OF TOP
BACK & END
NO SCALE



SECTION A
3" x 10"



SECTION B
3" x 10"



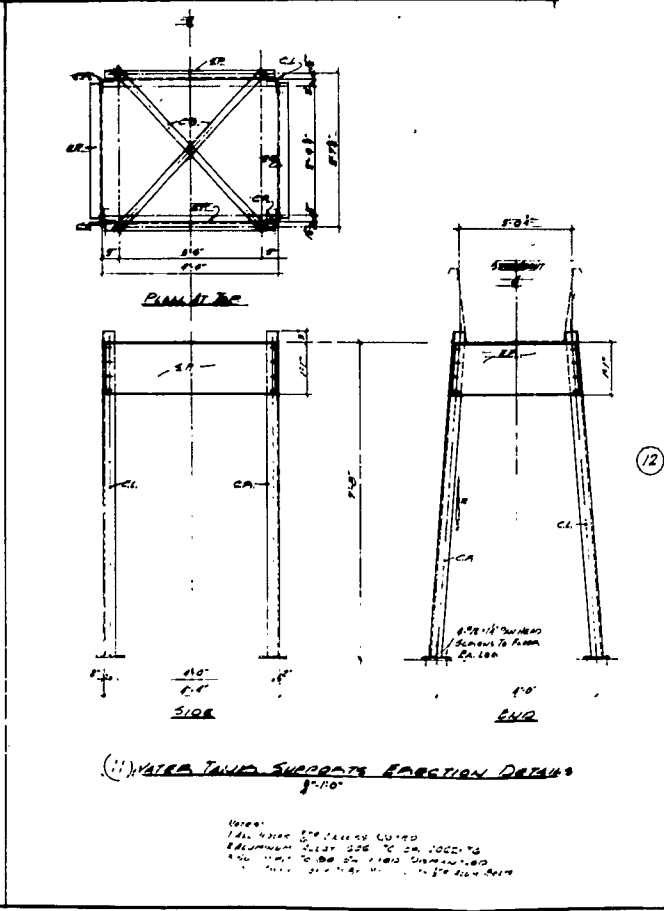
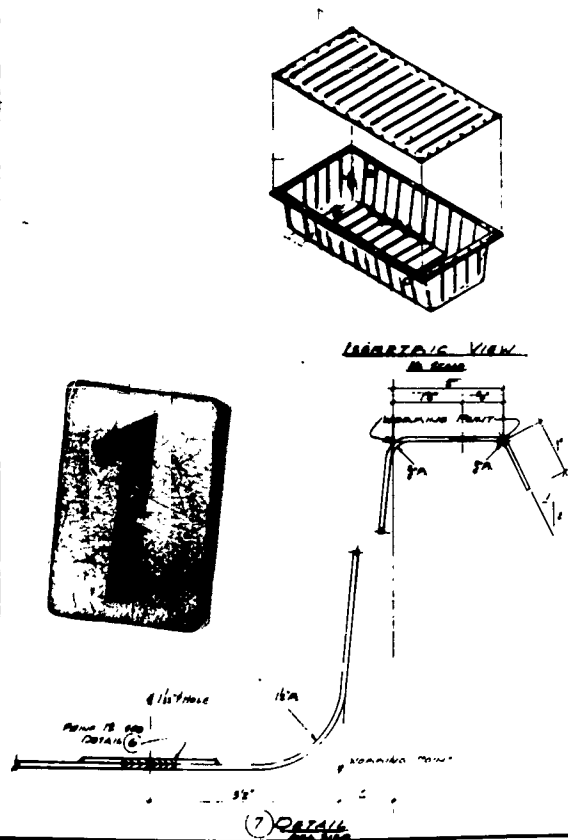
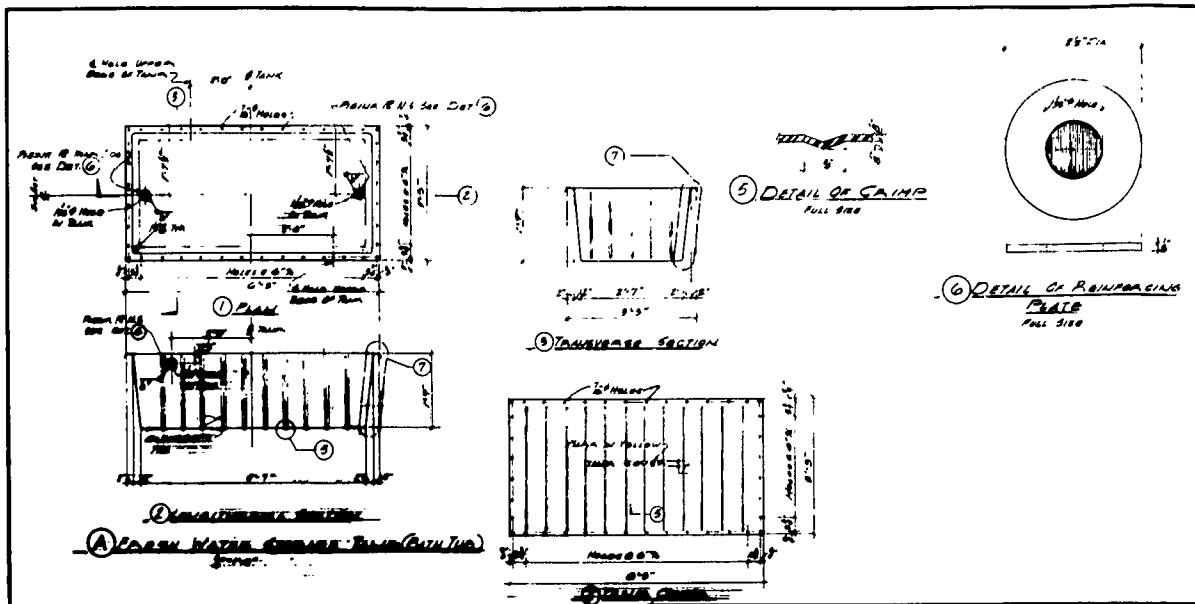
SECTION C
3" x 10"

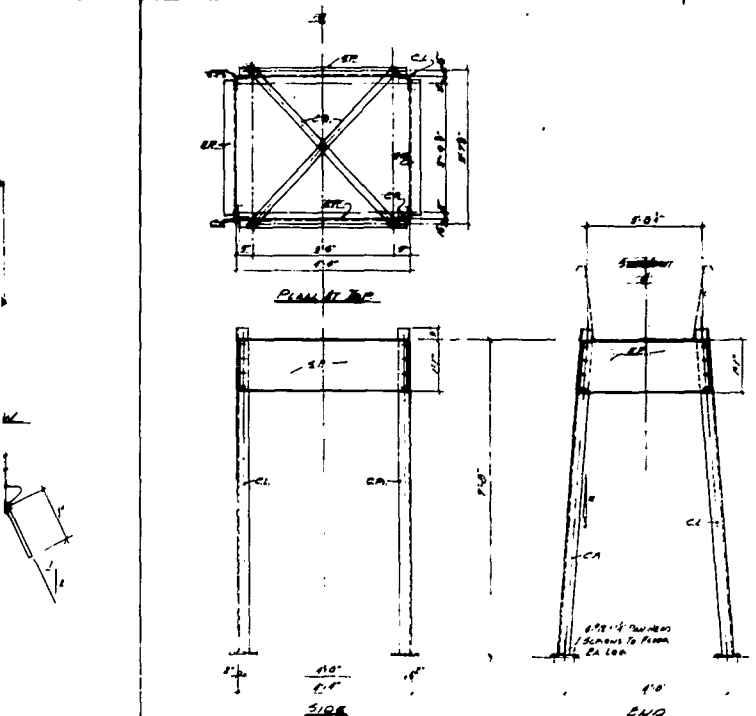
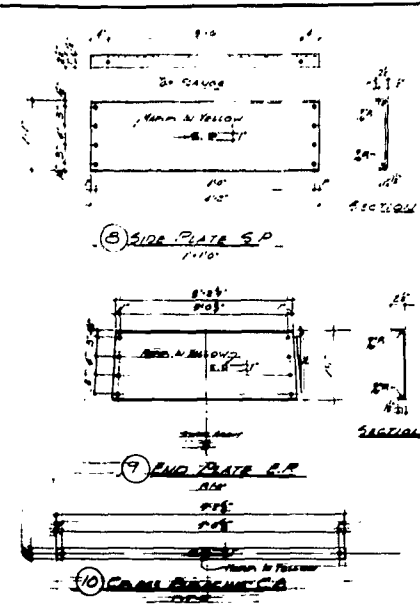
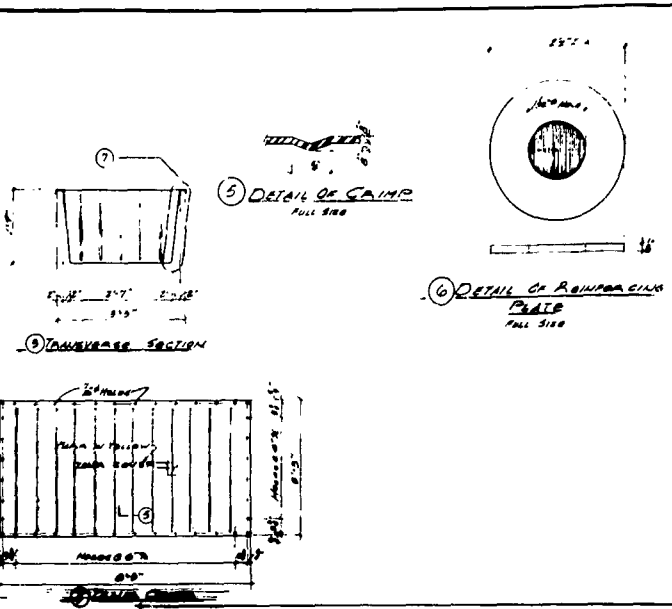
DRY HEAD KIT
ERECTOR DETAILS



BILL OF MATERIAL

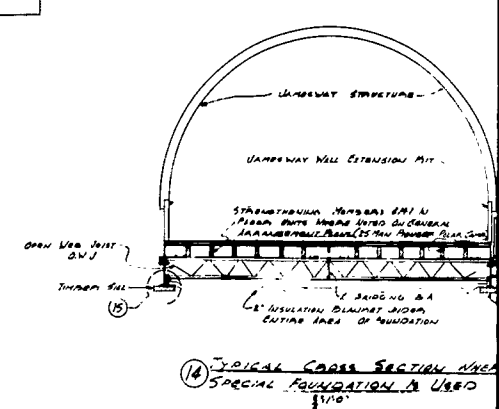
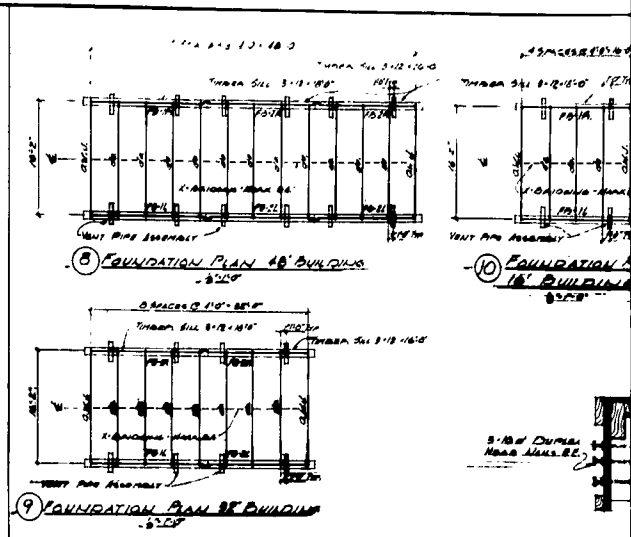
ITEM	MARK	QTY	SIZE	UNIT	REMARKS
1	A	1	1/4" x 1/2" x 1/2"	STEEL	1
2	B	1	1/4" x 1/2" x 1/2"	STEEL	1
3	C	1	1/4" x 1/2" x 1/2"	STEEL	1
4	D	1	1/4" x 1/2" x 1/2"	STEEL	1
5	E	1	1/4" x 1/2" x 1/2"	STEEL	1
6	F	1	1/4" x 1/2" x 1/2"	STEEL	1
7	G	1	1/4" x 1/2" x 1/2"	STEEL	1
8	H	1	1/4" x 1/2" x 1/2"	STEEL	1
9	I	1	1/4" x 1/2" x 1/2"	STEEL	1
10	J	1	1/4" x 1/2" x 1/2"	STEEL	1
11	K	1	1/4" x 1/2" x 1/2"	STEEL	1
12	L	1	1/4" x 1/2" x 1/2"	STEEL	1
13	M	1	1/4" x 1/2" x 1/2"	STEEL	1
14	N	1	1/4" x 1/2" x 1/2"	STEEL	1
15	O	1	1/4" x 1/2" x 1/2"	STEEL	1
16	P	1	1/4" x 1/2" x 1/2"	STEEL	1
17	Q	1	1/4" x 1/2" x 1/2"	STEEL	1
18	R	1	1/4" x 1/2" x 1/2"	STEEL	1
19	S	1	1/4" x 1/2" x 1/2"	STEEL	1
20	T	1	1/4" x 1/2" x 1/2"	STEEL	1
21	U	1	1/4" x 1/2" x 1/2"	STEEL	1
22	V	1	1/4" x 1/2" x 1/2"	STEEL	1
23	W	1	1/4" x 1/2" x 1/2"	STEEL	1
24	X	1	1/4" x 1/2" x 1/2"	STEEL	1
25	Y	1	1/4" x 1/2" x 1/2"	STEEL	1
26	Z	1	1/4" x 1/2" x 1/2"	STEEL	1
27	AA	1	1/4" x 1/2" x 1/2"	STEEL	1
28	AB	1	1/4" x 1/2" x 1/2"	STEEL	1
29	AC	1	1/4" x 1/2" x 1/2"	STEEL	1
30	AD	1	1/4" x 1/2" x 1/2"	STEEL	1
31	AE	1	1/4" x 1/2" x 1/2"	STEEL	1
32	AF	1	1/4" x 1/2" x 1/2"	STEEL	1
33	AG	1	1/4" x 1/2" x 1/2"	STEEL	1
34	AH	1	1/4" x 1/2" x 1/2"	STEEL	1
35	AI	1	1/4" x 1/2" x 1/2"	STEEL	1
36	AJ	1	1/4" x 1/2" x 1/2"	STEEL	1
37	AK	1	1/4" x 1/2" x 1/2"	STEEL	1
38	AL	1	1/4" x 1/2" x 1/2"	STEEL	1
39	AM	1	1/4" x 1/2" x 1/2"	STEEL	1
40	AN	1	1/4" x 1/2" x 1/2"	STEEL	1
41	AO	1	1/4" x 1/2" x 1/2"	STEEL	1
42	AP	1	1/4" x 1/2" x 1/2"	STEEL	1
43	AQ	1	1/4" x 1/2" x 1/2"	STEEL	1
44	AR	1	1/4" x 1/2" x 1/2"	STEEL	1
45	AS	1	1/4" x 1/2" x 1/2"	STEEL	1
46	AT	1	1/4" x 1/2" x 1/2"	STEEL	1
47	AU	1	1/4" x 1/2" x 1/2"	STEEL	1
48	AV	1	1/4" x 1/2" x 1/2"	STEEL	1
49	AW	1	1/4" x 1/2" x 1/2"	STEEL	1
50	AX	1	1/4" x 1/2" x 1/2"	STEEL	1
51	AY	1	1/4" x 1/2" x 1/2"	STEEL	1
52	AZ	1	1/4" x 1/2" x 1/2"	STEEL	1
53	BA	1	1/4" x 1/2" x 1/2"	STEEL	1
54	BB	1	1/4" x 1/2" x 1/2"	STEEL	1
55	BC	1	1/4" x 1/2" x 1/2"	STEEL	1
56	BD	1	1/4" x 1/2" x 1/2"	STEEL	1
57	BE	1	1/4" x 1/2" x 1/2"	STEEL	1
58	BF	1	1/4" x 1/2" x 1/2"	STEEL	1
59	BG	1	1/4" x 1/2" x 1/2"	STEEL	1
60	BH	1	1/4" x 1/2" x 1/2"	STEEL	1
61	BI	1	1/4" x 1/2" x 1/2"	STEEL	1
62	BJ	1	1/4" x 1/2" x 1/2"	STEEL	1
63	BK	1	1/4" x 1/2" x 1/2"	STEEL	1
64	BL	1	1/4" x 1/2" x 1/2"	STEEL	1
65	BM	1	1/4" x 1/2" x 1/2"	STEEL	1
66	BN	1	1/4" x 1/2" x 1/2"	STEEL	1
67	BO	1	1/4" x 1/2" x 1/2"	STEEL	1
68	BP	1	1/4" x 1/2" x 1/2"	STEEL	1
69	BQ	1	1/4" x 1/2" x 1/2"	STEEL	1
70	BR	1	1/4" x 1/2" x 1/2"	STEEL	1
71	BS	1	1/4" x 1/2" x 1/2"	STEEL	1
72	BT	1	1/4" x 1/2" x 1/2"	STEEL	1
73	BU	1	1/4" x 1/2" x 1/2"	STEEL	1
74	BV	1	1/4" x 1/2" x 1/2"	STEEL	1
75	BW	1	1/4" x 1/2" x 1/2"	STEEL	1
76	BX	1	1/4" x 1/2" x 1/2"	STEEL	1
77	BY	1	1/4" x 1/2" x 1/2"	STEEL	1
78	BZ	1	1/4" x 1/2" x 1/2"	STEEL	1
79	CA	1	1/4" x 1/2" x 1/2"	STEEL	1
80	CB	1	1/4" x 1/2" x 1/2"	STEEL	1
81	CC	1	1/4" x 1/2" x 1/2"	STEEL	1
82	CD	1	1/4" x 1/2" x 1/2"	STEEL	1
83	CE	1	1/4" x 1/2" x 1/2"	STEEL	1
84	CF	1	1/4" x 1/2" x 1/2"	STEEL	1
85	CG	1	1/4" x 1/2" x 1/2"	STEEL	1
86	CH	1	1/4" x 1/2" x 1/2"	STEEL	1
87	CI	1	1/4" x 1/2" x 1/2"	STEEL	1
88	CJ	1	1/4" x 1/2" x 1/2"	STEEL	1
89	CK	1	1/4" x 1/2" x 1/2"	STEEL	1
90	CL	1	1/4" x 1/2" x 1/2"	STEEL	1
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92	CN	1	1/4" x 1/2" x 1/2"	STEEL	1
93	CO	1	1/4" x 1/2" x 1/2"	STEEL	1
94	CP	1	1/4" x 1/2" x 1/2"	STEEL	1
95	CQ	1	1/4" x 1/2" x 1/2"	STEEL	1
96	CR	1	1/4" x 1/2" x 1/2"	STEEL	1
97	CS	1	1/4" x 1/2" x 1/2"	STEEL	1
98	CT	1	1/4" x 1/2" x 1/2"	STEEL	1
99	CU	1	1/4" x 1/2" x 1/2"	STEEL	1
100	CV	1	1/4" x 1/2" x 1/2"	STEEL	1
101	CW	1	1/4" x 1/2" x 1/2"	STEEL	1
102	CX	1	1/4" x 1/2" x 1/2"	STEEL	1
103	CY	1	1/4" x 1/2" x 1/2"	STEEL	1
104	CZ	1	1/4" x 1/2" x 1/2"	STEEL	1
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110	DF	1	1/4" x 1/2" x 1/2"	STEEL	1
111	DG	1	1/4" x 1/2" x 1/2"	STEEL	1
112	DH	1	1/4" x 1/2" x 1/2"	STEEL	1
113	DI	1	1/4" x 1/2" x 1/2"	STEEL	1
114	DJ	1	1/4" x 1/2" x 1/2"	STEEL	1
115	DK	1	1/4" x 1/2" x 1/2"	STEEL	1
116	DL	1	1/4" x 1/2" x 1/2"	STEEL	1
117	DM	1	1/4" x 1/2" x 1/2"	STEEL	1
118	DN	1	1/4" x 1/2" x 1/2"	STEEL	1
119	DO	1	1/4" x 1/2" x 1/2"	STEEL	1
120	DP	1	1/4" x 1/2" x 1/2"	STEEL	1
121	DQ	1	1/4" x 1/2" x 1/2"	STEEL	1
122	DR	1	1/4" x 1/2" x 1/2"	STEEL	1
123	DS	1	1/4" x 1/2" x 1/2"	STEEL	1
124	DT	1	1/4" x 1/2" x 1/2"	STEEL	1
125	DU	1	1/4" x 1/2" x 1/2"	STEEL	1
126	DV	1	1/4" x 1/2" x 1/2"	STEEL	1
127	DW	1	1/4" x 1/2" x 1/2"	STEEL	1
128	DX	1	1/4" x 1/2" x 1/2"	STEEL	1
129	DY	1	1/4" x 1/2" x 1/2"	STEEL	1
130	DZ	1	1/4" x 1/2" x 1/2"	STEEL	1
131	EA	1	1/4" x 1/2" x 1/2"	STEEL	1
132	EB	1	1/4" x 1/2" x 1/2"	STEEL	1
133	EC	1	1/4" x 1/2" x 1/2"	STEEL	1
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136	EF	1	1/4" x 1/2" x 1/2"	STEEL	1
137	EG	1	1/4" x 1/2" x 1/2"	STEEL	1
138	EH	1	1/4" x 1/2" x 1/2"	STEEL	1
139	EI	1	1/4" x 1/2" x 1/2"	STEEL	1
140	EJ	1	1/4" x 1/2" x 1/2"	STEEL	1
141	EK	1	1/4" x 1/2" x 1/2"	STEEL	1
142	EL	1	1/4" x 1/2" x 1/2"	STEEL	1
143	EM	1	1/4" x 1/2" x 1/2"	STEEL	1
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146	EP	1	1/4" x 1/2" x 1/2"	STEEL	1
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153	EW	1	1/4" x 1/2" x 1/2"	STEEL	1
154	EX	1	1/4" x 1/2" x 1/2"	STEEL	1
155	EY	1	1/4" x 1/2" x 1/2"	STEEL	1
156	EZ	1	1/4" x 1/2" x 1/2"	STEEL	1
157	FA	1	1/4" x 1/2" x 1/2"	STEEL	1
158	FB	1	1/4" x 1/2" x 1/2"	STEEL	1
159	FC	1	1/4" x 1/2" x 1/2"	STEEL	1
160	FD	1	1/4" x 1/2" x 1/2"	STEEL	1
161	FE	1	1/4" x 1/2" x 1/2"	STEEL	1
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163	FG	1	1/4" x 1/2" x 1/2"	STEEL	1
164	FH	1	1/4" x 1/2" x 1/2"	STEEL	1
165	FI	1	1/4" x 1/2" x 1/2"	STEEL	1
166	FJ	1	1/4" x 1/2" x 1/2"	STEEL	1
167	FK	1	1/4" x 1/2" x 1/2"	STEEL	1
168	FL	1	1/4" x 1/2" x 1/2"	STEEL	1
169	FM	1	1/4" x 1/2" x 1/2"	STEEL	1
170	FN	1	1/4" x 1/2" x 1/2"	STEEL	1
171	FO	1	1/4" x 1/2" x 1/2"	STEEL	1
172	FP	1	1/4" x 1/2" x 1/2"	STEEL	1
173	FQ	1	1/4" x 1/2" x 1/2"	STEEL	1
174	FR	1	1/4" x 1/2" x 1/2"	STEEL	1
175	FS	1	1/4" x 1/2" x 1/2"	STEEL	1
176	FT	1	1/4" x 1/2" x 1/2"	STEEL	1
177	FU	1	1/4" x 1/2" x 1/2"	STEEL	1
178	FV	1	1/4" x 1/2" x 1/2"	STEEL	1
179	FW	1	1/4" x 1/2" x 1/2"	STEEL	1
180	FX	1	1/4" x 1/2" x 1/2"	STEEL	1
181	FY	1	1/4" x 1/2" x 1/2"	STEEL	1
182	FZ	1	1/4" x 1/2" x 1/2"	STEEL	1
183	GA	1	1/4" x 1/2" x 1/2"	STEEL	1
184	GB	1	1/4" x 1/2" x 1/2"	STEEL	1
185	GC	1	1/4" x 1/2" x 1/2"	STEEL	1
186	GD	1	1/4" x 1/2" x 1/2"	STEEL	1



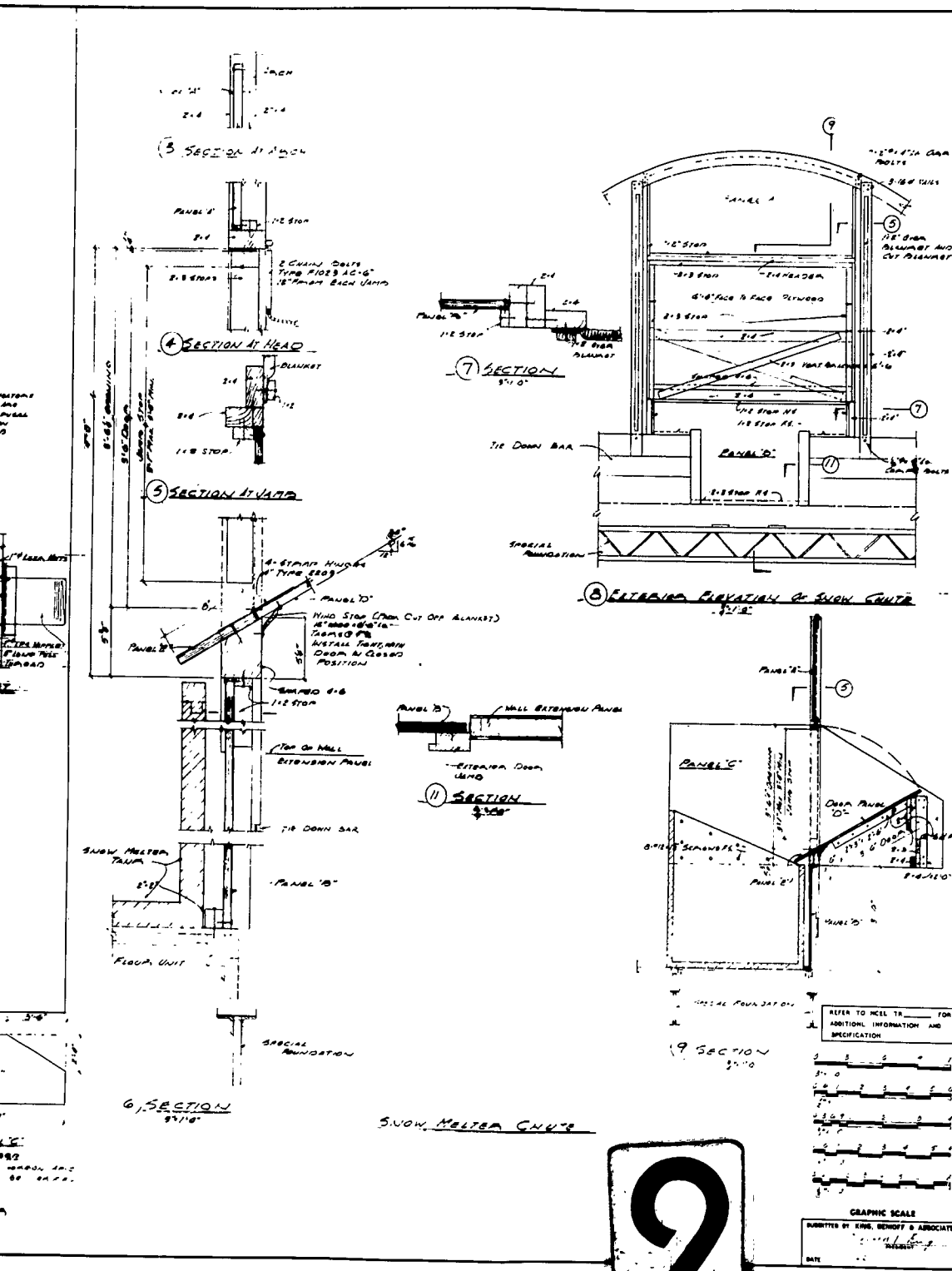


FABRICATION DETAILS

B. J. V. 12									
NO.	DATE	BY	CHKD	APPD	REVISIONS				
1	1/10/50	J. B. V.			SEE DET. 5				
2	1/10/50	J. B. V.			SEE DET. 6				
3	1/10/50	J. B. V.			SEE DET. 7				
4	1/10/50	J. B. V.			SEE DET. 8				
5	1/10/50	J. B. V.			SEE DET. 9				
6	1/10/50	J. B. V.			SEE DET. 10				
7	1/10/50	J. B. V.			SEE DET. 11				
8	1/10/50	J. B. V.			SEE DET. 12				
9	1/10/50	J. B. V.			SEE DET. 13				
10	1/10/50	J. B. V.			SEE DET. 14				
11	1/10/50	J. B. V.			SEE DET. 15				
12	1/10/50	J. B. V.			SEE DET. 16				
13	1/10/50	J. B. V.			SEE DET. 17				
14	1/10/50	J. B. V.			SEE DET. 18				
15	1/10/50	J. B. V.			SEE DET. 19				
16	1/10/50	J. B. V.			SEE DET. 20				
17	1/10/50	J. B. V.			SEE DET. 21				
18	1/10/50	J. B. V.			SEE DET. 22				
19	1/10/50	J. B. V.			SEE DET. 23				
20	1/10/50	J. B. V.			SEE DET. 24				
21	1/10/50	J. B. V.			SEE DET. 25				
22	1/10/50	J. B. V.			SEE DET. 26				
23	1/10/50	J. B. V.			SEE DET. 27				
24	1/10/50	J. B. V.			SEE DET. 28				
25	1/10/50	J. B. V.			SEE DET. 29				
26	1/10/50	J. B. V.			SEE DET. 30				
27	1/10/50	J. B. V.			SEE DET. 31				
28	1/10/50	J. B. V.			SEE DET. 32				
29	1/10/50	J. B. V.			SEE DET. 33				
30	1/10/50	J. B. V.			SEE DET. 34				
31	1/10/50	J. B. V.			SEE DET. 35				
32	1/10/50	J. B. V.			SEE DET. 36				
33	1/10/50	J. B. V.			SEE DET. 37				
34	1/10/50	J. B. V.			SEE DET. 38				
35	1/10/50	J. B. V.			SEE DET. 39				
36	1/10/50	J. B. V.			SEE DET. 40				
37	1/10/50	J. B. V.			SEE DET. 41				
38	1/10/50	J. B. V.			SEE DET. 42				
39	1/10/50	J. B. V.			SEE DET. 43				
40	1/10/50	J. B. V.			SEE DET. 44				
41	1/10/50	J. B. V.			SEE DET. 45				
42	1/10/50	J. B. V.			SEE DET. 46				
43	1/10/50	J. B. V.			SEE DET. 47				
44	1/10/50	J. B. V.			SEE DET. 48				
45	1/10/50	J. B. V.			SEE DET. 49				
46	1/10/50	J. B. V.			SEE DET. 50				
47	1/10/50	J. B. V.			SEE DET. 51				
48	1/10/50	J. B. V.			SEE DET. 52				
49	1/10/50	J. B. V.			SEE DET. 53				
50	1/10/50	J. B. V.			SEE DET. 54				
51	1/10/50	J. B. V.			SEE DET. 55				
52	1/10/50	J. B. V.			SEE DET. 56				
53	1/10/50	J. B. V.			SEE DET. 57				
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55	1/10/50	J. B. V.			SEE DET. 59				
56	1/10/50	J. B. V.			SEE DET. 60				
57	1/10/50	J. B. V.			SEE DET. 61				
58	1/10/50	J. B. V.			SEE DET. 62				
59	1/10/50	J. B. V.			SEE DET. 63				
60	1/10/50	J. B. V.			SEE DET. 64				
61	1/10/50	J. B. V.			SEE DET. 65				
62	1/10/50	J. B. V.			SEE DET. 66				
63	1/10/50	J. B. V.			SEE DET. 67				
64	1/10/50	J. B. V.			SEE DET. 68				
65	1/10/50	J. B. V.			SEE DET. 69				
66	1/10/50	J. B. V.			SEE DET. 70				
67	1/10/50	J. B. V.			SEE DET. 71				
68	1/10/50	J. B. V.			SEE DET. 72				
69	1/10/50	J. B. V.			SEE DET. 73				
70	1/10/50	J. B. V.			SEE DET. 74				
71	1/10/50	J. B. V.			SEE DET. 75				
72	1/10/50	J. B. V.			SEE DET. 76				
73	1/10/50	J. B. V.			SEE DET. 77				
74	1/10/50	J. B. V.			SEE DET. 78				
75	1/10/50	J. B. V.			SEE DET. 79				
76	1/10/50	J. B. V.			SEE DET. 80				
77	1/10/50	J. B. V.			SEE DET. 81				
78	1/10/50	J. B. V.			SEE DET. 82				
79	1/10/50	J. B. V.			SEE DET. 83				
80	1/10/50	J. B. V.			SEE DET. 84				
81	1/10/50	J. B. V.			SEE DET. 85				
82	1/10/50	J. B. V.			SEE DET. 86				
83	1/10/50	J. B. V.			SEE DET. 87				
84	1/10/50	J. B. V.			SEE DET. 88				
85	1/10/50	J. B. V.			SEE DET. 89				
86	1/10/50	J. B. V.			SEE DET. 90				
87	1/10/50	J. B. V.			SEE DET. 91				
88	1/10/50	J. B. V.			SEE DET. 92				
89	1/10/50	J. B. V.			SEE DET. 93				
90	1/10/50	J. B. V.			SEE DET. 94				
91	1/10/50	J. B. V.			SEE DET. 95				
92	1/10/50	J. B. V.			SEE DET. 96				
93	1/10/50	J. B. V.			SEE DET. 97				
94	1/10/50	J. B. V.			SEE DET. 98				
95	1/10/50	J. B. V.			SEE DET. 99				
96	1/10/50	J. B. V.			SEE DET. 100				
97	1/10/50	J. B. V.			SEE DET. 101				
98	1/10/50	J. B. V.			SEE DET. 102				
99	1/10/50	J. B. V.			SEE DET. 103				
100	1/10/50	J. B. V.			SEE DET. 104				
101	1/10/50	J. B. V.			SEE DET. 105				
102	1/10/50	J. B. V.			SEE DET. 106				
103	1/10/50	J. B. V.			SEE DET. 107				
104	1/10/50	J. B. V.			SEE DET. 108				
105	1/10/50	J. B. V.			SEE DET. 109				
106	1/10/50	J. B. V.			SEE DET. 110				
107	1/10/50	J. B. V.			SEE DET. 111				
108	1/10/50	J. B. V.			SEE DET. 112				
109	1/10/50	J. B. V.			SEE DET. 113				
110	1/10/50	J. B. V.			SEE DET. 114				
111	1/10/50	J. B. V.			SEE DET. 115				
112	1/10/50	J. B. V.			SEE DET. 116				
113	1/10/50	J. B. V.			SEE DET. 117				
114	1/10/50	J. B. V.			SEE DET. 118				
115	1/10/50	J. B. V.			SEE DET. 119				
116	1/10/50	J. B. V.			SEE DET. 120				
117	1/10/50	J. B. V.			SEE DET. 121				
118	1/10/50	J. B. V.			SEE DET. 122				
119	1/10/50	J. B. V.			SEE DET. 123				
120	1/10/50	J. B. V.			SEE DET. 124				
121	1/10/50	J. B. V.			SEE DET. 125				
122	1/10/50	J. B. V.			SEE DET. 126				
123	1/10/50	J. B. V.			SEE DET. 127				
124	1/10/50	J. B. V.			SEE DET. 128				
125	1/10/50	J. B. V.			SEE DET. 129				
126	1/10/50	J. B. V.			SEE DET. 130				
127	1/10/50	J. B. V.			SEE DET. 131				
128	1/10/50	J. B. V.			SEE DET. 132				
129	1/10/50	J. B. V.			SEE DET. 133				
130	1/10/50	J. B. V.			SEE DET. 134				
131	1/10/50	J. B. V.			SEE DET. 135				
132	1/10/50	J. B. V.			SEE DET. 136				
133	1/10/50	J. B. V.			SEE DET. 137				
134	1/10/50	J. B. V.			SEE DET. 138				
135	1/10/50	J. B. V.			SEE DET. 139				
136	1/10/50	J. B. V.			SEE DET. 140				
137	1/10/50	J. B. V.			SEE DET. 141				
138	1/10/50	J. B. V.			SEE DET. 142				
139	1/10/50	J. B. V.			SEE DET. 143				
140	1/10/50	J. B. V.			SEE DET. 144				
141	1/10/50	J. B. V.			SEE DET. 145				
142	1/10/50	J. B. V.			SEE DET. 146				
143	1/10/50	J. B. V.			SEE DET. 147				
144	1/10/50	J. B. V.			SEE DET. 148				
145	1/10/50	J. B. V.			SEE DET. 149				
146	1/10/50	J. B. V.			SEE DET. 150				
147	1/10/50	J. B. V.			SEE DET. 151				
148	1/10/50	J. B. V.			SEE DET. 152				
149	1/10/50	J. B. V.			SEE DET. 153				
150	1/10/50	J. B. V.			SEE DET. 154				
151	1/10/50	J. B. V.			SEE DET. 155				
152	1/10/50	J. B. V.			SEE DET. 156				
153	1/10/50	J. B. V.			SEE DET. 157				
154	1/10/50	J. B. V.			SEE DET. 158				
155	1/10/50	J. B. V.			SEE DET. 159				
156	1/10/50	J. B. V.			SEE DET. 160				
157	1/10/50	J. B. V.			SEE DET. 161				
158	1/10/50	J. B. V.			SEE DET. 162				
159	1/10/50	J. B. V.			SEE DET. 163				
160	1/10/50	J. B. V.			SEE DET. 164				
161	1/10/50	J. B. V.			SEE DET. 165				
162	1/10/50	J. B. V.			SEE DET. 166				
163	1/10/50	J. B. V.			SEE DET. 167				
164	1/10/50	J. B. V.			SEE DET. 168				
165	1/10/50	J. B. V.			SEE DET. 169				
166	1/10/50	J. B. V.			SEE DET. 170				
167	1/10/50	J. B. V.			SEE DET. 171				
168	1/10/50	J. B. V.			SEE DET. 172				
169	1/10/50	J. B. V.			SEE DET. 173				
170	1/10/50	J. B. V.			SEE DET. 174				
171	1/10/50	J. B. V.			SEE DET. 175				
172	1/10/50	J. B. V.			SEE DET. 176				
173	1/10/50	J. B. V.			SEE DET. 177				
174	1/10/50	J. B. V.			SEE DET. 178				
175	1/10/50	J. B. V.			SEE DET. 179				
176	1/10/50	J. B. V.			SEE DET. 180				
177	1/10/50	J. B. V.			SEE DET. 181				
178	1/10/50	J. B. V.			SEE DET. 182				
179	1/10/50	J. B. V.			SEE DET. 183				
180	1/10/50	J. B. V.			SEE DET. 184				
181	1/10/50	J. B. V.			SEE DET. 185				
182	1/10/50	J. B. V.			SEE DET. 186				
183	1/10/50	J. B. V.			SEE DET. 187				
184	1/10/50	J. B. V.			SEE DET. 188				
185	1/10/50	J. B. V.			SEE DET. 189				
186	1/10/50	J. B. V.			SEE DET. 190				
187	1/10/50	J. B. V.			SEE DET. 191				
188	1/10/50	J. B. V.			SEE DET. 192				
189	1/10/50	J. B. V.			SEE DET. 193				
190	1/10/50	J. B. V.			SEE DET. 194				
191	1/10/50	J. B. V.			SEE DET. 195				
192	1/10/50	J. B. V.			SEE DET. 196				
193	1/10/50	J. B. V.			SEE DET. 197				
194	1/10/50	J. B. V.			SEE DET. 198				
195	1/10/50	J. B. V.			SEE DET. 199				
196	1/10/50	J. B. V.			SEE DET. 200				
197	1/10/50	J. B. V.			SEE DET. 201				
198	1/10/50	J. B. V.			SEE DET. 202				
199	1/10/50	J. B. V.			SEE DET. 203				
200	1/10/50	J. B. V.			SEE DET. 204				
201	1/10/50	J. B. V.			SEE DET. 205				
202	1/10/50	J. B. V.			SEE DET. 206				
20									







NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	SNOW MELTER CHUTE	1	EA	
2	SNOW MELTER CHUTE	1	EA	
3	SNOW MELTER CHUTE	1	EA	
4	SNOW MELTER CHUTE	1	EA	
5	SNOW MELTER CHUTE	1	EA	
6	SNOW MELTER CHUTE	1	EA	
7	SNOW MELTER CHUTE	1	EA	
8	SNOW MELTER CHUTE	1	EA	
9	SNOW MELTER CHUTE	1	EA	
10	SNOW MELTER CHUTE	1	EA	
11	SNOW MELTER CHUTE	1	EA	
12	SNOW MELTER CHUTE	1	EA	
13	SNOW MELTER CHUTE	1	EA	
14	SNOW MELTER CHUTE	1	EA	
15	SNOW MELTER CHUTE	1	EA	
16	SNOW MELTER CHUTE	1	EA	
17	SNOW MELTER CHUTE	1	EA	
18	SNOW MELTER CHUTE	1	EA	
19	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
20	SNOW MELTER CHUTE	1	EA	
21	SNOW MELTER CHUTE	1	EA	
22	SNOW MELTER CHUTE	1	EA	
23	SNOW MELTER CHUTE	1	EA	
24	SNOW MELTER CHUTE	1	EA	
25	SNOW MELTER CHUTE	1	EA	
26	SNOW MELTER CHUTE	1	EA	
27	SNOW MELTER CHUTE	1	EA	
28	SNOW MELTER CHUTE	1	EA	
29	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
30	SNOW MELTER CHUTE	1	EA	
31	SNOW MELTER CHUTE	1	EA	
32	SNOW MELTER CHUTE	1	EA	
33	SNOW MELTER CHUTE	1	EA	
34	SNOW MELTER CHUTE	1	EA	
35	SNOW MELTER CHUTE	1	EA	
36	SNOW MELTER CHUTE	1	EA	
37	SNOW MELTER CHUTE	1	EA	
38	SNOW MELTER CHUTE	1	EA	
39	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
40	SNOW MELTER CHUTE	1	EA	
41	SNOW MELTER CHUTE	1	EA	
42	SNOW MELTER CHUTE	1	EA	
43	SNOW MELTER CHUTE	1	EA	
44	SNOW MELTER CHUTE	1	EA	
45	SNOW MELTER CHUTE	1	EA	
46	SNOW MELTER CHUTE	1	EA	
47	SNOW MELTER CHUTE	1	EA	
48	SNOW MELTER CHUTE	1	EA	
49	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
50	SNOW MELTER CHUTE	1	EA	
51	SNOW MELTER CHUTE	1	EA	
52	SNOW MELTER CHUTE	1	EA	
53	SNOW MELTER CHUTE	1	EA	
54	SNOW MELTER CHUTE	1	EA	
55	SNOW MELTER CHUTE	1	EA	
56	SNOW MELTER CHUTE	1	EA	
57	SNOW MELTER CHUTE	1	EA	
58	SNOW MELTER CHUTE	1	EA	
59	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
60	SNOW MELTER CHUTE	1	EA	
61	SNOW MELTER CHUTE	1	EA	
62	SNOW MELTER CHUTE	1	EA	
63	SNOW MELTER CHUTE	1	EA	
64	SNOW MELTER CHUTE	1	EA	
65	SNOW MELTER CHUTE	1	EA	
66	SNOW MELTER CHUTE	1	EA	
67	SNOW MELTER CHUTE	1	EA	
68	SNOW MELTER CHUTE	1	EA	
69	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
70	SNOW MELTER CHUTE	1	EA	
71	SNOW MELTER CHUTE	1	EA	
72	SNOW MELTER CHUTE	1	EA	
73	SNOW MELTER CHUTE	1	EA	
74	SNOW MELTER CHUTE	1	EA	
75	SNOW MELTER CHUTE	1	EA	
76	SNOW MELTER CHUTE	1	EA	
77	SNOW MELTER CHUTE	1	EA	
78	SNOW MELTER CHUTE	1	EA	
79	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
80	SNOW MELTER CHUTE	1	EA	
81	SNOW MELTER CHUTE	1	EA	
82	SNOW MELTER CHUTE	1	EA	
83	SNOW MELTER CHUTE	1	EA	
84	SNOW MELTER CHUTE	1	EA	
85	SNOW MELTER CHUTE	1	EA	
86	SNOW MELTER CHUTE	1	EA	
87	SNOW MELTER CHUTE	1	EA	
88	SNOW MELTER CHUTE	1	EA	
89	SNOW MELTER CHUTE	1	EA	

NO.	DESCRIPTION	QTY	UNIT	REMARKS
90	SNOW MELTER CHUTE	1	EA	
91	SNOW MELTER CHUTE	1	EA	
92	SNOW MELTER CHUTE	1	EA	
93	SNOW MELTER CHUTE	1	EA	
94	SNOW MELTER CHUTE	1	EA	
95	SNOW MELTER CHUTE	1	EA	
96	SNOW MELTER CHUTE	1	EA	
97	SNOW MELTER CHUTE	1	EA	
98	SNOW MELTER CHUTE	1	EA	
99	SNOW MELTER CHUTE	1	EA	